

# GDS3710 Firmware Release Note

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## FIRMWARE VERSION 1.0.3.34

### PRODUCT NAME

GDS3710 (HW Supported: 1.3A, 1.3B, 1.5A, 1.6A, 1.7A)

### DATE

06/12/2018

### SUMMARY OF UPDATE

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

### IMPORTANT UPGRADING NOTE

- *Local firmware upgrade recommended.*
- *Please download and use the “[Utility](#)” provided by Grandstream for local firmware upgrade, avoiding internet or power interruption to brick the device.*
- *[Factory Reset](#) is recommended after upgrading from old 1.0.1.xx or 1.0.2.xx firmware. Downgrade back to 1.0.1.xx or 1.0.2.xx is NOT supported once upgrade to 1.0.3.xx.*
- *Please backup data before performing factory reset then restore back the data.*

### FIRMWARE APPLIES TO BELOW HW VERSION ONLY

HW version	FW	Comments
GDS3710 HW1.3A	YES	Only support HTTP upgrade image
GDS3710 HW1.3B	YES	Only support HTTP upgrade image
GDS3710 HW1.5A	YES	
GDS3710 HW1.6A	YES	
GDS3710 HW1.7A	YES	

## ENHANCEMENT

- Optimized ringing timeout and set to within 5 seconds.
- Optimized 4<sup>th</sup> MJPEG stream, added 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> MJPEG when encode type is MJPEG.
- Chrome and Firefox via websocket to get live video stream, NO Plugin required to install, but IE still requires the support of video plugin.
- Added support for basic authentication of MJPEG HTTP API (similar to GS IPC behavior).
- Added Open Door by configured schedule or time window.
- Added “Test” button for “Alarm Action” in the webUI.
- Added Alarm Notification for Access Attempts of users out of the configured schedule.  
HTTP API Log Index Code: 1110, Non-scheduled Access (refer to related Log Type Document)
- Added option to send Snapshot via email when doorbell pressed.
- Added option to send “Call Completed Elsewhere” when doorbell pressed and door opened successfully by other GXP phones so no missing call logs will be displayed.
- Added RTCP/RTCP-XR for SIP Call.
- Improved Event Log UI layout.

## BUG FIX

- Fixed GDS3710 doorbell call would fail if target is IP but with non-default port.
- Fixed GDS3710 RTCP feature not working as expected.
- Fixed Schedule Open Door time span configuration related issue.
- Fixed SMTP test failure when LLDP is disabled.
- Fixed NTP error occurred during RTCP/RTCP-XR transmission
- Fixed XML Config File not update the “Keep Door Open” settings if “Immediate Open Door” selected.
- Fixed the webpage display abnormal if there are special character “,” in the group name.
- Removed vague translation of “Open Door Valid Time” in WebUI and the HTTP API function module.
- Fixed the temperature sensor displayed abnormal in the WebUI.
- Fixed the doorbell tone distortion.
- Fixed HTTP API open door log message error.
- Fixed GDS3710 FTP uploading snapshots failure if FTP server using domain name.
- Fixed SIP call hangs up if DNS server is domain name

## KNOWN ISSUES

- Video JPEG stream will fail in GXP audio phones when NAT involved.
- The SIP phone sending DTMF to GDS may sometimes hand up and clear the call
- Allowing to accept multiple calls at the same time
- Device will fail to send DNS resolution when Stun Server using FQDN (only IP Stun works)
- The 2<sup>nd</sup> outbound proxy will not use the DNS-SRV parsing domain name.
- The HTTP web access device may appear close\_wait
- The option may crash if click the “Local Configuration Function”
- INVITE to an ICMP address, the doorbell still rings as normal.

## NEW FUNCTIONS

- **Basic authentication of MJPEG video or Snapshot image via HTTP API to easy 3<sup>rd</sup> party System Integration, similar to GS IPC implementation.**

For easy system integration (with the cost of less secure), once the feature enabled (default is disabled), user can send HTTP API with correct credentials to retrieve MJPEG video or JPEG snapshot from GDS3710, similar to the behavior of Grandstream IP Cameras.

The HTTP API or CLI command listed as below:

**MJPEG Video:**

[http\(s\)://admin:password@IP\\_GDS3710:Port/jpeg/mjpeg.html](http(s)://admin:password@IP_GDS3710:Port/jpeg/mjpeg.html)

**JPEG Snapshot:**

[http\(s\)://admin:password@IP\\_GDS3710:Port/jpeg/view.html](http(s)://admin:password@IP_GDS3710:Port/jpeg/view.html)

**NOTE:**

- MJPEG stream may feel like animation due to the compromise of video quality and bandwidth.
- Similar command can be applied to open source application like **VLC MediaPlayer** to retrieve H.264 video stream with better quality:

[rtsp://admin:password@IP\\_GDS3710:Port/X](rtsp://admin:password@IP_GDS3710:Port/X)

where X= 0, 4, 8 corresponded to 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> video stream where **2<sup>nd</sup> recommended**.

- **Open Door by configured schedule or time window.**

This feature is good for usage scene like schools or similar private or public places where the door needs to keep open at specific time window but closed otherwise. Also good for buildings or properties where a party or seminar need to be hosted for some period of time in a day (the door keeps open) then back to locked with authorized entry after that. Also good for lunch breaks in a factory or company where door open and no access log required.

- **Alarm Notification of Access Attempts by users out of the configured schedule**

This feature will allow related building or office managers aware the abnormal activities when legitimated users access the door out of the allowed configured schedule. For example, entry during weekend or night at not working hours.

- **Send Snapshot via email when doorbell pressed.**

This feature once enabled, the GDS3710 will email the snapshot when doorbell pressed, in addition to the existing feature that FTP the snapshots to the Server, if working SMTP configured.

- **Implemented “Call Completed Elsewhere” to omit “Missing Call Logs” in GXP phone**

This implementation will allow GXP phones NOT display ‘Missing Calls’ in the log if the office having multiple GXP phones in the group to open door, can open door call is performed by other GXP.

- **Added RTCP/RTCP-XR for SIP Call to meet Cloud Solution Service Provider.**

This feature allows 3<sup>rd</sup> party Service Provider or Cloud Solution to monitor the operation status of the GDS3710 by using related SIP Calls.

## NEW P-VALUE

P-Value	Values	Default Value	Comments
P15409	0: Disable 1: Enable	0	Email Snapshot when Doorbell Pressed
P15408	1~10	1	Non-scheduled Access Alarm Action Profile
P15407	0: Disable 1: Enable	0	Enable Non-scheduled Access Alarm
P2392	0: Disable 1: RTCP 2: RTCP-XR	0	Enable RTCP, RTCP-XR. Default disabled

## NEW HTTP API

### GET:

<http|https>://<servername>/goform/config?cmd=get&type=sip

### SET:

<http|https>://<servername>/goform/config?cmd=set& P2392=<0|1|2>

For details please refer to HTTP API Document and User Manual.



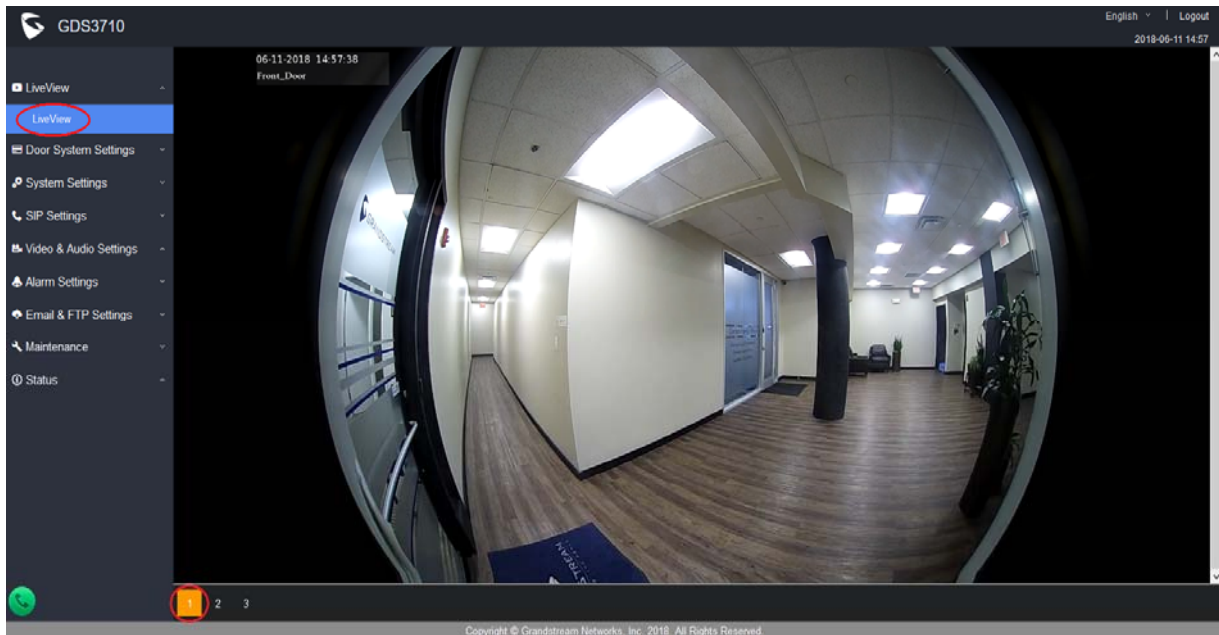
## NEW FEATURES OVERVIEW

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

### CHROME/FIREFOX NO PLUGIN REQUIRED FOR VIDEO LIVEVIEW

- **Web Configuration**

This option can be found under device web UI → LiveView → LiveView:



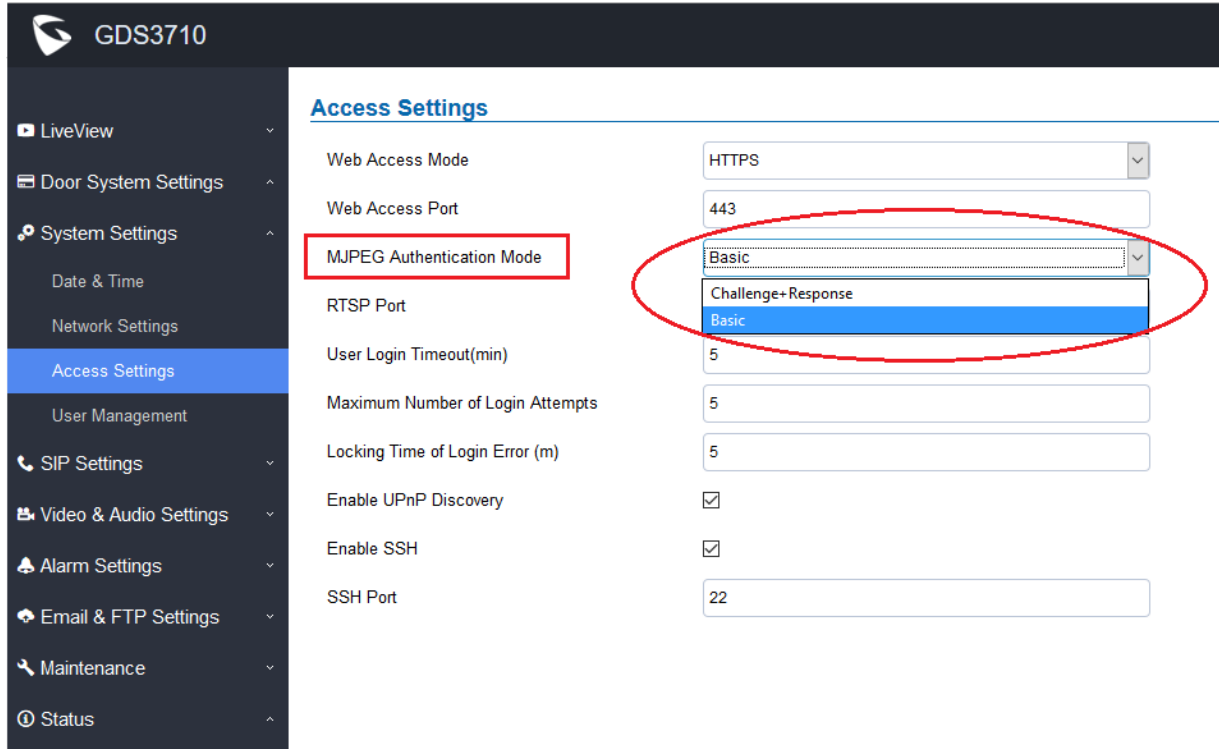
- **Functionality**

This feature allows user and installer to “Preview” the Live Video using popular browsers like Chrome or Firefox immediately without downloading and installing the plugins or NPAPIs like previously, due to most current browsers are not supporting the NPAPI anymore for security concern.

## BASIC AUTHENTICATION of MJPEG VIDEO OR SNAPSHOT VIA HTTP API

- **Web Configuration**

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



The screenshot displays the 'Access Settings' configuration page for a GDS3710 device. The left sidebar contains a navigation menu with 'Access Settings' highlighted. The main content area shows various settings: Web Access Mode (HTTPS), Web Access Port (443), MJPEG Authentication Mode (Basic), RTSP Port, User Login Timeout (5 min), Maximum Number of Login Attempts (5), Locking Time of Login Error (5 m), Enable UPnP Discovery (checked), Enable SSH (checked), and SSH Port (22). The 'MJPEG Authentication Mode' dropdown menu is highlighted with a red circle, showing 'Basic' selected and 'Challenge+Response' as an option.

- **Functionality**

Allow 3<sup>rd</sup> party system integrator or developers to implement related application for users. Details please refer to User Menu. By default this feature is disabled and use more secured “Challenge+Response” mode.

If enabled, user can send HTTP API with correct credentials to retrieve MJPEG video or JPEG snapshot from GDS3710, similar to the behavior of Grandstream IP Cameras.

The HTTP API or CLI command listed as below:

**MJPEG Video:**

[http\(s\)://admin:password@IP\\_GDS3710:Port/jpeg/mjpeg.html](http(s)://admin:password@IP_GDS3710:Port/jpeg/mjpeg.html)

**JPEG Snapshot:**

[http\(s\)://admin:password@IP\\_GDS3710:Port/jpeg/view.html](http(s)://admin:password@IP_GDS3710:Port/jpeg/view.html)

**NOTE:**

- MJPEG stream may feel like animation due to the compromise of video quality and bandwidth.
- Similar command can be applied to open source application like **VLC MediaPlayer** to retrieve H.264 video stream with better quality:  
[rtsp://admin:password@IP\\_GDS3710:Port/X](rtsp://admin:password@IP_GDS3710:Port/X)  
where X= 0, 4, 8 corresponded to 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> video stream where **2<sup>nd</sup> recommended**.
- Detailed information, please check out the updated *latest version* of **HTTP API**.

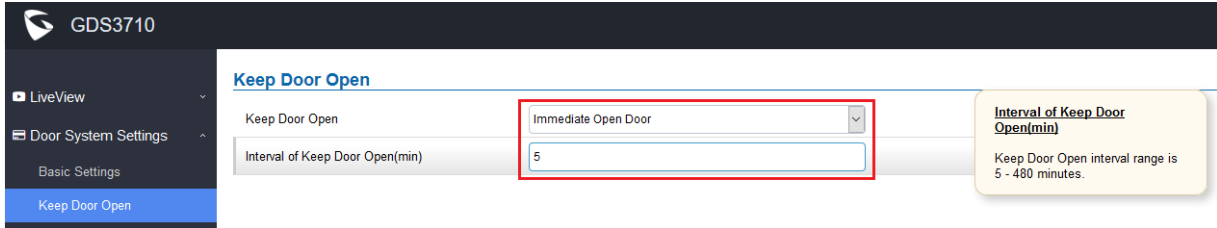
## OPEN DOOR BY CONFIGURED SCHEDULE OR TIME WINDOW

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Keep Door Open:

There are two mode:

### 1. Immediate Open Door (One Time Only Action)



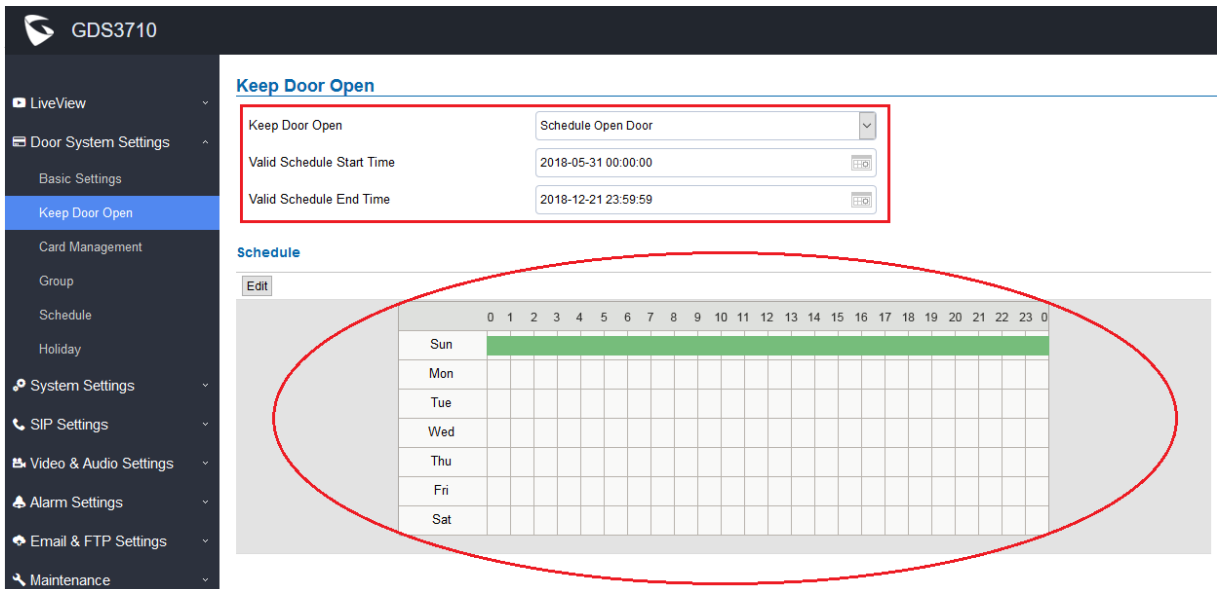
**Keep Door Open**

Keep Door Open: Immediate Open Door

Interval of Keep Door Open(min): 5

**Interval of Keep Door Open(min)**  
 Keep Door Open interval range is 5 - 480 minutes.

### 2. Schedule Open Door (Repeated Action)



**Keep Door Open**

Keep Door Open: Schedule Open Door

Valid Schedule Start Time: 2018-05-31 00:00:00

Valid Schedule End Time: 2018-12-21 23:59:59

**Schedule**

Edit

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
Sun	[Green bar]																								
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									

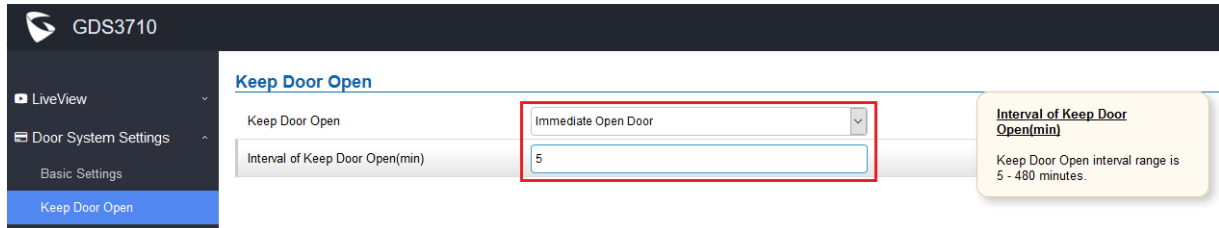
- **Functionality**

By default this feature is disabled. This feature when enabled will allow usage scene like schools or similar private or public places where the door needs to keep open at specific time window but closed otherwise. Also good for buildings or properties where a party or seminar need to be hosted for some period of time in a day (the door keeps open) then back to locked with authorized entry after that. Also good for lunch breaks in a factory or company where door open and no access log required.

## ALARM NOTIFICATION OF ACCESS BY USERS OUT OF SCHEDULE

- **Web Configuration**

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



- **Functionality**

By default this feature is disabled. When configured and enabled, this feature will allow related building or office managers aware the abnormal activities when legitimated users access the door out of the allowed configured schedule. For example, entry during weekend or night at not working hours.

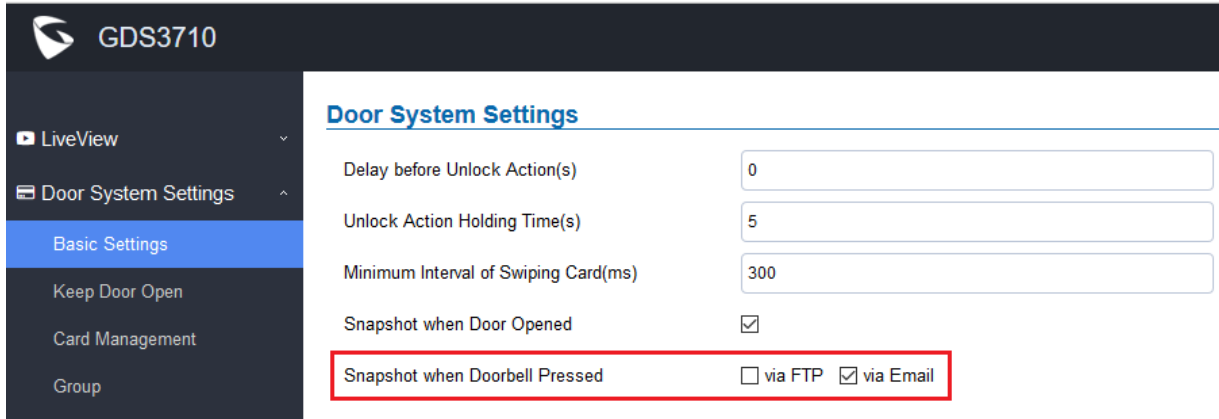
- **New Pvalue**

P-Value	Values	Default Value	Comments
P15408	1~10	1	Non-scheduled Access Alarm Action Profile

## SEND SNAPSHOT VIA EMAIL WHEN DOORBELL PRESSED

- **Web Configuration**

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



**GDS3710**

**Door System Settings**

Delay before Unlock Action(s)

Unlock Action Holding Time(s)

Minimum Interval of Swiping Card(ms)

Snapshot when Door Opened

Snapshot when Doorbell Pressed  via FTP  via Email

- **Functionality**

This feature once enabled, the GDS3710 will email the snapshot when doorbell pressed, in addition to the existing feature that FTP the snapshots to the Server, if working SMTP configured.

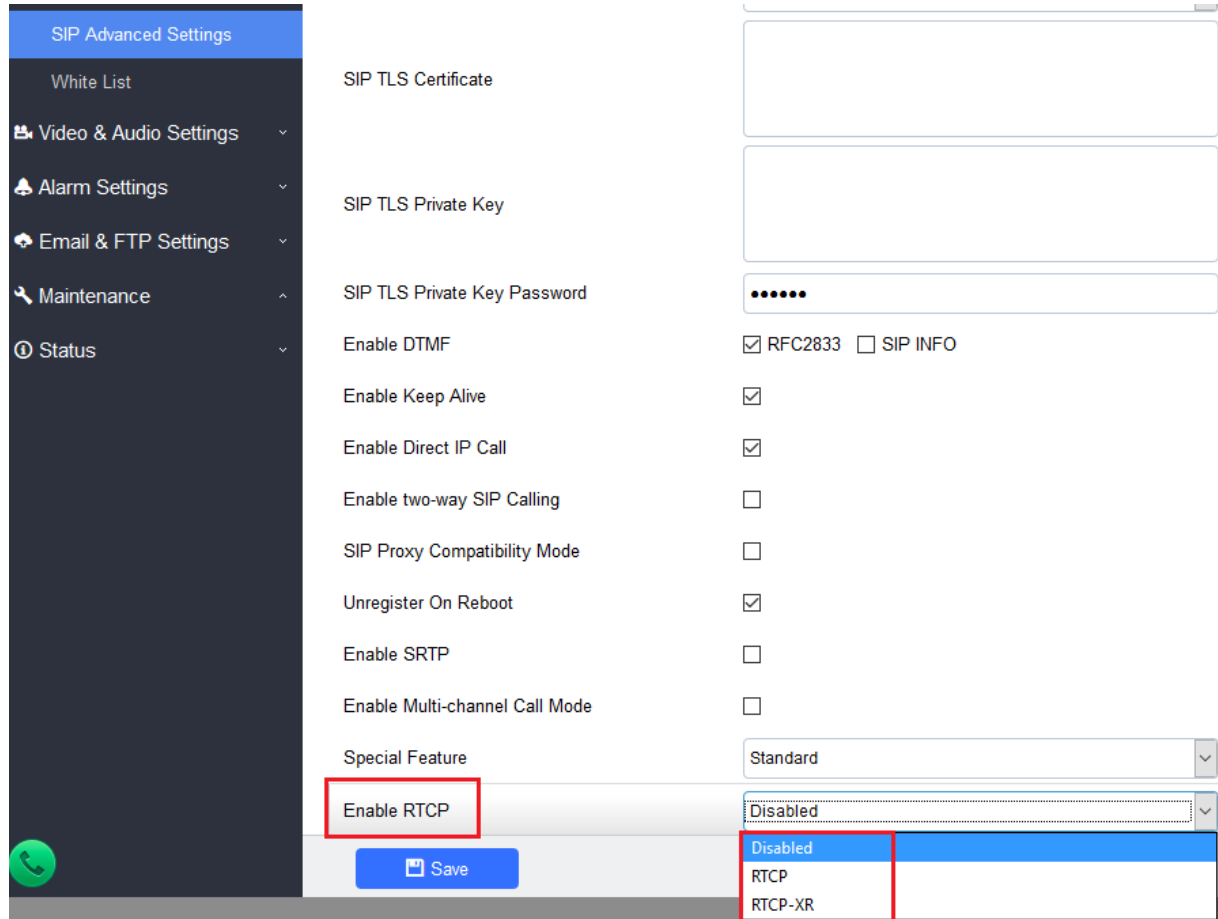
- **New Pvalue**

P-Value	Values	Default Value	Comments
P15409	0: Disable 1: Enable	0	Email Snapshot when Doorbell Pressed

## RTCP/RTCP-XR SIP CALL FOR ITSP/CLOUD SOLUTION

- Web Configuration**

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



- Functionality**

This feature allows 3<sup>rd</sup> party Service Provider or Cloud Solution to monitor the operation status of the GDS3710 by using related SIP Calls.

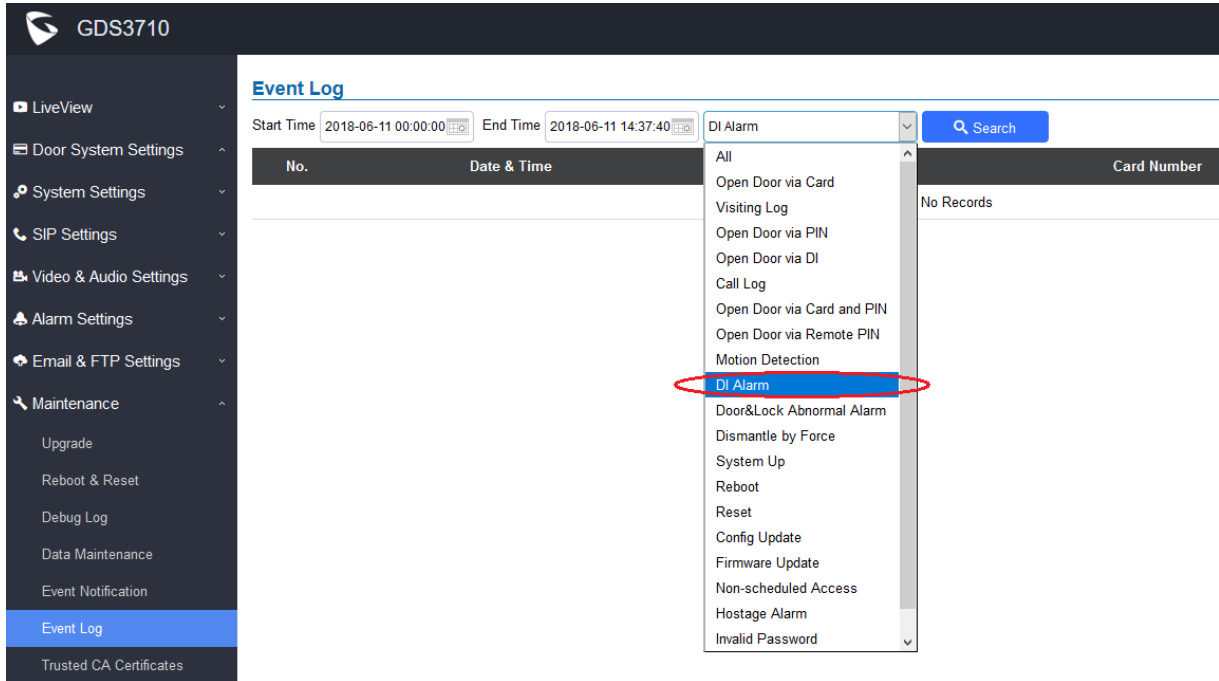
- New Pvalue**

P-Value	Values	Default Value	Comments
P2392	0, 1, 2	0: Disabled 1: RTCP 2: RTCP-XR	Enable RTCP, RTCP-XR. Default is Disabled.

## IMPROVED EVENT LOG UI LAYOUT

- Web Configuration**

This option can be found under device web UI → Maintenance → Event Log:



The screenshot shows the web configuration interface for a GDS3710 device. The left sidebar contains a navigation menu with the following items: LiveView, Door System Settings, System Settings, SIP Settings, Video & Audio Settings, Alarm Settings, Email & FTP Settings, Maintenance (expanded), Upgrade, Reboot & Reset, Debug Log, Data Maintenance, Event Notification, Event Log (highlighted), and Trusted CA Certificates. The main content area is titled 'Event Log' and includes a search bar and filters for Start Time (2018-06-11 00:00:00), End Time (2018-06-11 14:37:40), and a dropdown menu for 'DI Alarm'. The dropdown menu is open, showing a list of event types: All, Open Door via Card, Visiting Log, Open Door via PIN, Open Door via DI, Call Log, Open Door via Card and PIN, Open Door via Remote PIN, Motion Detection, **DI Alarm** (highlighted with a red circle), Door&Lock Abnormal Alarm, Dismantle by Force, System Up, Reboot, Reset, Config Update, Firmware Update, Non-scheduled Access, Hostage Alarm, and Invalid Password. The table below the dropdown is currently empty, displaying 'No Records'.

- Functionality**

This UI layout improvement allows user to have a better choice and view about the Event Log.



## FIRMWARE VERSION 1.0.3.32

### PRODUCT NAME

GDS3710 (HW Supported: 1.3A, 1.3B, 1.5A, 1.6A, 1.7A)

### DATE

05/08/2018

### SUMMARY OF UPDATE

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

### IMPORTANT UPGRADING NOTE

- **Local firmware upgrade recommended.**
- **Please download and use the “[Utility](#)” provided by Grandstream for local firmware upgrade, avoiding internet or power interruption to brick the device.**
- **[Factory Reset](#) is recommended after upgrading from old 1.0.1.xx or 1.0.2.xx firmware. Downgrade back to 1.0.1.xx or 1.0.2.xx is NOT supported once upgrade to 1.0.3.xx.**
- **Please backup data before performing factory reset then restore back the data.**

### FIRMWARE APPLIES TO BELOW HW VERSION ONLY

HW version	FW	Comments
GDS3710 HW1.3A	YES	Only support HTTP upgrade image
GDS3710 HW1.3B	YES	Only support HTTP upgrade image
GDS3710 HW1.5A	YES	
GDS3710 HW1.6A	YES	
GDS3710 HW1.7A	YES	

## ENHANCEMENT

- Added LED lighting indication pattern for firmware upgrade process. The sequence during upgrade is:
  - 1) Doorbell button blue LED will flash when firmware files are downloading.
  - 2) Digit 1,2,3 blue LED will flash during upgrading from 0 to 25%, then stays on;
  - 3) Digit 4,5,6 blue LED will flash during upgrading from 25 to 50%, then stays on;
  - 4) Digit 7,8,9 blue LED will flash during upgrading from 50 to 75%, then stays on;
  - 5) Digit \*,0,# blue LED will flash during upgrading from 75 to 100%, then stays on;
  - 6) After all key's blue LEDs light on then flash twice then reboot itself to finish the upgrade process.
- Added White List Number to maximum 20 digits up to 30 records.
- Added support for HTTP command to Open Door.
- Added display device Logs at GDS webGUI.
- Added Start/End date for Card Management based on field feedback.
- Added "Test" Button for Alarm Action.
- Added "Alarm In/Out Status" display at GDS "Status" page GUI.
- Added Self-Define Event Notification Message.

## BUG FIX

- Fixed Motion Detection and Tamper DI input, these two alarms cannot upload snapshots to the Central Storage and FTP server.
- Fixed Ringing timeout set to “0” unable to initiate the call.
- Fixed use call icon to call GXP/GXV phone and execute remote open door, the visiting log displayed error in GDSManager Utility Software.

## KNOWN ISSUES

- Video JPEG stream will fail in GXP audio phones when NAT involved.
- The SIP phone sending DTMF to GDS may sometimes hand up and clear the call
- Allowing to accept multiple calls at the same time
- Device will fail to send DNS resolution when Stun Server using FQDN (only IP Stun works)
- The 2<sup>nd</sup> outbound proxy will not use the DNS-SRV parsing domain name.
- Device will not update to new IP after switching the network until after reboot.
- Device will not prompt error if IP address and Gateway configured incorrect.
- When unlocking latency is not zero, swiping card cannot clear unestablished SIP call.
- The HTTP web access device may appear close\_wait
- The option may crash if click the “Local Configuration Function”
- IP address obtained by LLDP may be wrongly disabled.

## NEW FUNCTIONS

- **LED Lighting Indication Pattern for Firmware Upgrade Process**

The sequence during upgrade is:

- 1) Doorbell button blue LED will flash when firmware files are downloading.
- 2) Digit 1,2,3 blue LED will flash during upgrading from 0 to 25%, then stays on;
- 3) Digit 4,5,6 blue LED will flash during upgrading from 25 to 50%, then stays on;
- 4) Digit 7,8,9 blue LED will flash during upgrading from 50 to 75%, then stays on;
- 5) Digit \*,0,# blue LED will flash during upgrading from 75 to 100%, then stays on;
- 6) After all key's blue LEDs light on then flash twice then reboot itself to finish the upgrade process.

- **HTTP Open Door:**

3<sup>rd</sup> party system integrator can now "Enable" the HTTP API for Remote Open Door (Default is disabled, enable this feature customers will take the risk of security).

Grandstream provided a sample HTML utility to help customer to understand how to implement this feature. Details please refer to [HERE](#).

- **Self-Defined Event Message**

3<sup>rd</sup> party system integrator can now "Enable" the Event Notification and use Self-Defined Event Message. This allows system integrator to implement cloud service solution, like collecting real time event status from the GDS and centrally monitor the running status of the device.

## NEW P-VALUE

P-Value	Values	Default Value	Comments
P15424	0- Disable 1- Enable	0	Enable HTTP API Remote Open Door
P15428	5~300	30	Open Door Valid Time
P15417	1: HTTP 2: HTTPS	1	Via Type
P15416	String	{"mac": "\${MAC} ", "content": " \${WARNING_MSG}"}	URL Template

## NEW HTTP API

Enable HTTP API Remote Open Door

Open Door Valid Time

Enable Event Notification

Via Type

HTTP/HTTPS Server

HTTP/HTTPS Server Username

HTTP/HTTPS Server Password

URL Template

```
{"mac":"${MAC}","content":"${WARNING_MSG}"}
```

*`\${MAC}` : MAC Address*

For details please refer to User Menu.

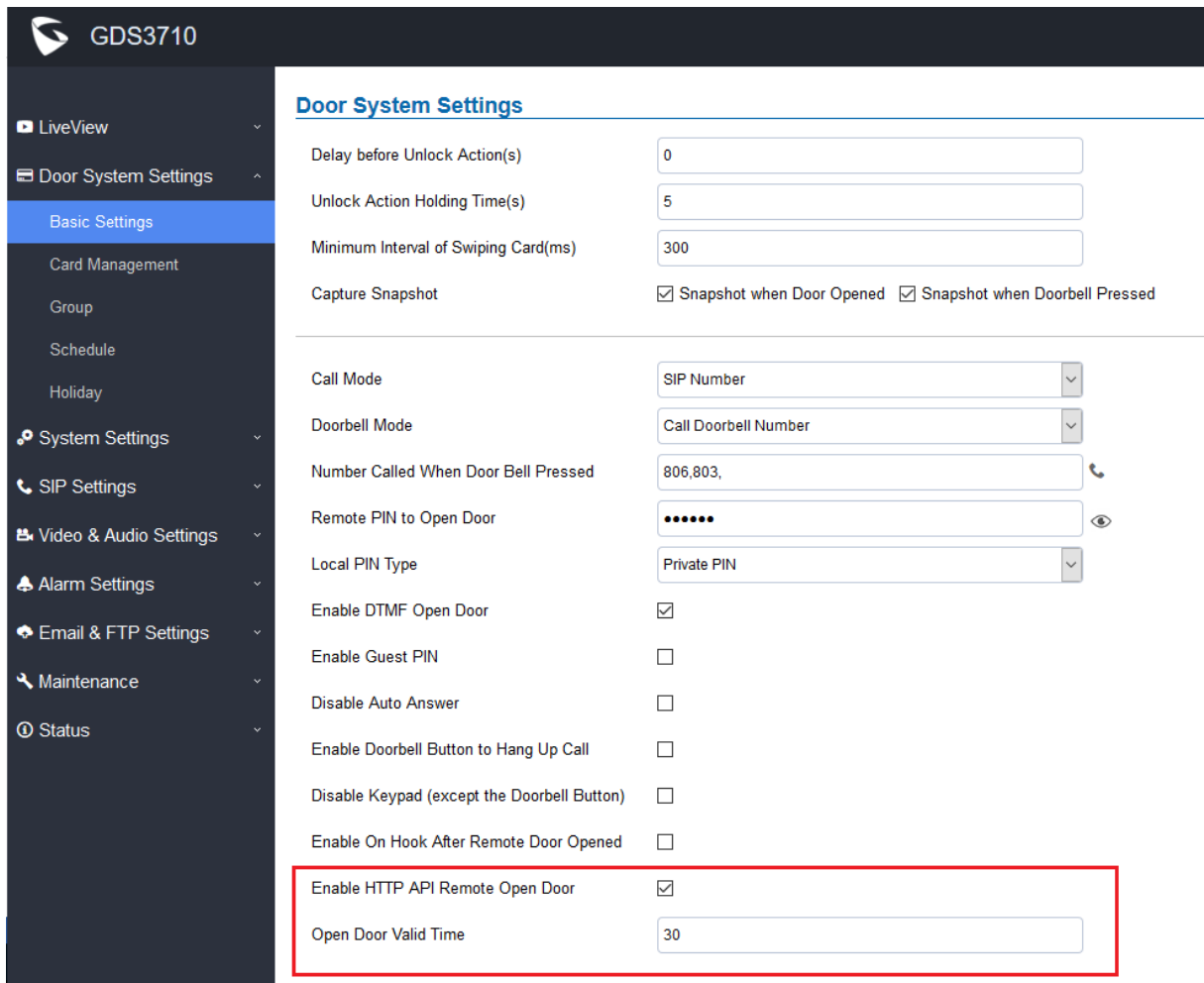
## NEW FEATURES OVERVIEW

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

### HTTP OPEN DOOR

- **Web Configuration**

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



**GDS3710**

**Door System Settings**

Delay before Unlock Action(s)	<input type="text" value="0"/>
Unlock Action Holding Time(s)	<input type="text" value="5"/>
Minimum Interval of Swiping Card(ms)	<input type="text" value="300"/>
Capture Snapshot	<input checked="" type="checkbox"/> Snapshot when Door Opened <input checked="" type="checkbox"/> Snapshot when Doorbell Pressed
Call Mode	<input type="text" value="SIP Number"/>
Doorbell Mode	<input type="text" value="Call Doorbell Number"/>
Number Called When Door Bell Pressed	<input type="text" value="806,803"/>
Remote PIN to Open Door	<input type="text" value="....."/>
Local PIN Type	<input type="text" value="Private PIN"/>
Enable DTMF Open Door	<input checked="" type="checkbox"/>
Enable Guest PIN	<input type="checkbox"/>
Disable Auto Answer	<input type="checkbox"/>
Enable Doorbell Button to Hang Up Call	<input type="checkbox"/>
Disable Keypad (except the Doorbell Button)	<input type="checkbox"/>
Enable On Hook After Remote Door Opened	<input type="checkbox"/>
<b>Enable HTTP API Remote Open Door</b>	<input checked="" type="checkbox"/>
Open Door Valid Time	<input type="text" value="30"/>

- **Functionality**

Allow 3<sup>rd</sup> party system integrator or developers to implement related application for users. Details please refer to User Menu or the sample HTML utility from Grandstream.

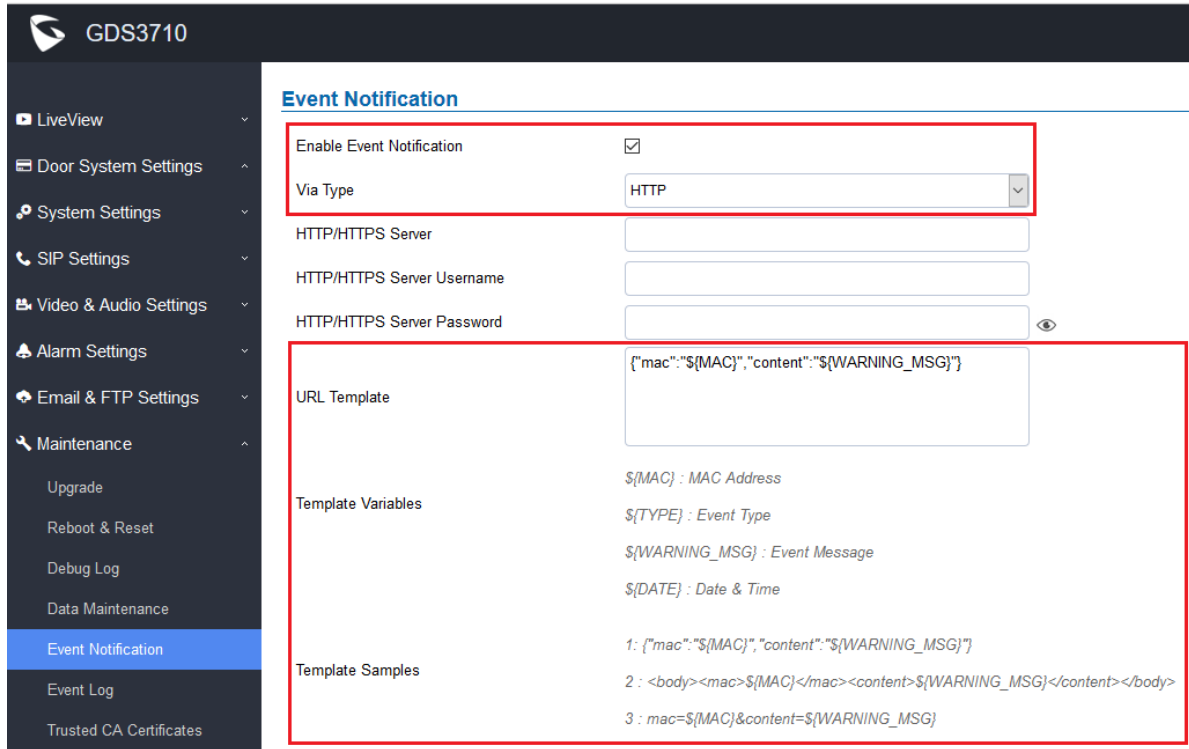
The Open Door Valid Time is a time window which allows the HTTP API to work when handing those HTTP API command, this is opened for user to configure based on the environment implemented.

For example, if the time is 30 seconds, then after initial HTTP API, within 30 seconds the valid command with correct authentication code should be received otherwise will time out and wait for new CLI.

## SELF-DEFIND EVENT NOTIFICATION MESSAGE

- **Web Configuration**

This option can be found under device web UI → Maintenance → Event Notification:



**Event Notification**

Enable Event Notification

Via Type

HTTP/HTTPS Server

HTTP/HTTPS Server Username

HTTP/HTTPS Server Password

URL Template

Template Variables

*\${MAC} : MAC Address*

*\${TYPE} : Event Type*

*\${WARNING\_MSG} : Event Message*

*\${DATE} : Date & Time*

Template Samples

1: {"mac":"\${MAC}","content":"\${WARNING\_MSG}"}

2: <body><mac>\${MAC}</mac><content>\${WARNING\_MSG}</content></body>

3: mac=\${MAC}&content=\${WARNING\_MSG}

- **Functionality**

This feature allow the 3<sup>rd</sup> party system integrator or developer to implement Centralized Control or Monitor system (e.g.: the Cloud) to provide related service. Sample Event Notification Template illustrated in the webGUI. More details please refer to User Menu.

- **New Pvalue**

P-Value	Values	Default Value	Comments
P15424	2- Disable 3- Enable	0	Enable HTTP API Remote Open Door
P15428	5~300	30 (In Seconds)	Open Door Valid Time
P15417	1: HTTP; 2: HTTPS	1	Via Type
P15416	String	{"mac":"\${MAC} ", "content": " \${WARNING_MSG} "}	URL Template

## FIRMWARE VERSION 1.0.3.31

### PRODUCT NAME

GDS3710 (HW Supported: 1.3A, 1.3B, 1.5A, 1.6A, 1.7A)

### DATE

04/23/2018

### SUMMARY OF UPDATE

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

### IMPORTANT UPGRADING NOTE

- *Local firmware upgrade recommended.*
- *Please download and use the utility provided by Grandstream for local firmware upgrade, avoiding internet or power interruption to brick the device.*
- *Factory Reset is recommended after upgrading from old 1.0.1.x or 1.0.2.x firmware.*
- *Please backup data before performing factory reset then restore back the data.*

### FIRMWARE APPLIES TO BELOW HW VERSION ONLY

HW version	FW	Comments
GDS3710 HW1.3A	YES	Only support HTTP upgrade image
GDS3710 HW1.3B	YES	Only support HTTP upgrade image
GDS3710 HW1.5A	YES	
GDS3710 HW1.6A	YES	
GDS3710 HW1.7A	YES	

### ENHANCEMENT

- “Enable Doorbell Button to Hang Up Call” set as default value.
- Optimized ONVIF timezone settings and webGUI display.
- Added ability to disable certificate validation.
- Added event log and notification to System Up/Reboot/Reset/ConfigUpdate/FirmwareUpdate
- Added support for uploading Trusted CA Certificates
- Added “Unregister On Reboot” as default
- Added bad block handling schema in cache
- Added LED flash in pattern to indicate the provisioning process.



## BUG FIX

- Fixed slow keypad response issue in some scenarios.
- Fixed Privacy Masks may fail sometimes if modifying audio codec or video resolution configuration.
- Fixed system no error prompt if configure IP address and Gateway incorrect.
- Fixed error when importing OSD text and alarm phone list in P value.
- Fixed the display format of time incorrect even the correct format chosen.
- Fixed at some noisy environment AEC broken causing echo at far side.
- Fixed backlight not off after RFID card swiped.
- Fixed sometimes device blocked, keypad dead without key tone and blue light, cannot make or accept SIP calls, no video and audio.
- Fixed not sending HTTP POST to the HTTP server.
- Fixed PIN Open Door stop working if DNS resolution failed
- Fixed incorrect password login issue and no password recovery email configured click "Save" showing the mailbox testing successful.
- Fixed the FTP configuration page the hint error and storage place error.
- Fixed SIP NOTIFY with resync event reboot the device issue.
- Fixed MD, Tamper Alarm, etc. snapshots storage location error.
- Fixed the device may reboot if enable HTTP server and Motion Detection.
- Fixed continuous MD events in long period of time could cause device no response to keypad and card swipe, and video continuously reconnecting.
- Fixed Group Adding Schedule Failure.
- Fixed Time Zone missing BagRep. Kiev (capital of Ukraine).

## KNOWN ISSUES

- Video JPEG stream will fail in GXP audio phones when NAT involved.
- The SIP phone sending DTMF to GDS may sometimes hand up and clear the call
- Allowing to accept multiple calls at the same time
- Device will fail to send DNS resolution when Stun Server using FQDN (only IP Stun works)
- The 2<sup>nd</sup> outbound proxy will not use the DNS-SRV parsing domain name.
- Device will not update to new IP after switching the network until after reboot.
- Device will not prompt error if IP address and Gateway configured incorrect.
- When unlocking latency is not zero, swiping card cannot clear unestablished SIP call.
- The HTTP web access device may appear close\_wait
- The option may crash if click the "Local Configuration Function"
- IP address obtained by LLDP may be wrongly disabled.

## NEW FUNCTIONS

- **Key Function Modification:**

1. Depending on the first key input is "\*" or numeric digit, the device will treat this as "password input" or "extension number input" separately. and Doorbell button will not function in this scene (not the first input) until the task finished or timeout.
2. If the first key input is Doorbell, device will treat this as calling the preconfigured numbers or IP addresses, then all other key input (like input local PIN to open door) will be disabled until the doorbell call finished or timeout.
3. When call in ringing stage before connected, all the keypad input will be disabled and no response, unless "Enable Doorbell Button to Hang Up Call" selected (default), then press the doorbell button can end the call. Otherwise if "Enable Doorbell Button to Hang Up Call" de-selected, call cannot be terminated from GDS keypad, the connected call will be terminated by far end and unconnected call will be ringing timeout.
4. When call established, all the keypad input will be treated as DTMF.

- **Alarm Modification**

1. When there are continuously alarm events in 30 minutes and every minute there is at least one new alarm event and alarm not be taken care, then the device will reduce the alarm frequency in next 10 minutes to save system resource. Instead of constantly sending out alarm, the device will send out one alarm in every 10 minutes, instead of sending lots of alarms, giving the above condition not changed.
2. If the next 10 minutes the condition not met, the device will restore back to normal alarm cycle to send out alarm.
3. If the above condition not satisfied, the device will use normal alarm cycle to send out alarm event report. That means if there is only one or less alarm event in every one minute, the device will just send out the alarm event when it happened.

## NEW P-VALUE

P-Value	Values	Default Value	Comments
P8463	4- Disable 5- Enable	0	Validate Server Certificates
P8433-P8438	<string>  Max.length=4096		Trusted CA Certificates Files

## NEW HTTP API

<parameter>=<value>	Page	Values	Comments
P8463=<int>	Upgrade	0,1	Validate Server Certificates
type=<string>	Trusted CA Certificates	trustedca	Get Trusted CA Certificates info
P8433-P8438=< string >	Trusted CA Certificates	string	Trusted CA Certificates Files

## NEW FEATURES OVERVIEW

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



### DOOR SYSTEM SETTINGS

- **Web Configuration**

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

**Door System Settings**

---

Delay before Unlock Action(s)	<input type="text" value="0"/>
Unlock Action Holding Time(s)	<input type="text" value="5"/>
Min. Interval of Swiping Card(ms)	<input type="text" value="300"/>
Capture Image	<input checked="" type="checkbox"/> Unlock <input checked="" type="checkbox"/> Doorbell Pressed
Call Mode	<input type="text" value="SIP Number"/>
Doorbell Mode	<input type="text" value="Call Doorbell Number"/>
Number Called When Door Bell Pressed	<input type="text" value="803,806,"/> 
Remote PIN to Open the Door	<input type="text" value="*****"/> 
Local PIN Type	<input type="text" value="Private Card PIN"/>
Enable DTMF Open Door	<input checked="" type="checkbox"/>
Enable Guest PIN	<input type="checkbox"/>
Disable Auto Answer	<input type="checkbox"/>
Enable Doorbell Button to Hang Up Call	<input type="checkbox"/>
Disable Keypad (except Doorbell Button)	<input type="checkbox"/>
Enable On Hook After Remote Unlock	<input type="checkbox"/>

- **Functionality**

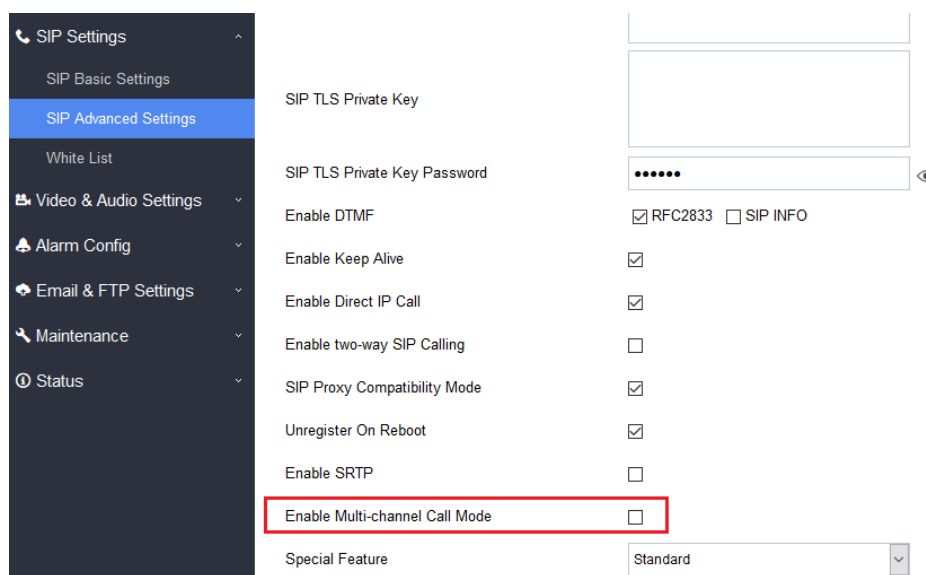
Several new functions has been revised for the wording:

1. Added taking snapshot when doorbell pressed.
2. Added lock keypad (only Doorbell working)
3. Added automatic clear the call when door opened.

### MULTI-CHANNEL CALL MODE

- **Web Configuration**

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



- **Functionality**

This feature allow the device to receive multiple calls at the same time, with one active and others on hold (up to 4 calls maximum). The first call the blue LED light will light up keypad digit “1”, 2<sup>nd</sup> call will light up keypad digit “2”, and so on. On hold call will have related digit blinking while active call will have the digit blue LED solid light up. Call can be switched by pressing the blinking digits.

The default value is disabled, the device can only take ONE call at one time.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P15427	Configure Multi-Channel Call Mode	Value = 0, Disable Value = 1, Enable	0, Disable

## FIRMWARE VERSION 1.0.3.23

### PRODUCT NAME

GDS3710 (*HW Supported: 1.3A, 1.3B, 1.5A, 1.6A, 1.7A*)

### DATE

01/10/2018

### SUMMARY OF UPDATE

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

### IMPORTANT UPGRADING NOTE

- *Once upgraded to 1.0.3.x firmware, **downgrading** to 1.0.2.x or previous lower firmware version is NOT SUPPORTED.*
- ***Factory Reset** is recommended after upgrading from old 1.0.1.x or 1.0.2.x firmware.*
- *Please backup data before performing factory reset then restore back the data.*

### FIRMWARE APPLIES TO BELOW HW VERSION ONLY

HW version	FW	Comments
GDS3710 HW1.3A	YES	Only support HTTP upgrade image
GDS3710 HW1.3B	YES	Only support HTTP upgrade image
GDS3710 HW1.5A	YES	
GDS3710 HW1.6A	YES	
GDS3710 HW1.7A	YES	

### ENHANCEMENT

- Improved the tool tip content of “Central Mode”
- Improved the Doorbell Sound
- Added Standard Mode and Broadsoft Mode in SIP Settings, Broadsoft Supported.
- Improved some webGUI language and Tool Tip language.
- Added card ID number and phone number reported in event log message.
- Added “Click-to-Dial” feature support.

### BUG FIX

- Fixed DHCP Option66 function invalid
- Fixed (Broadsoft) HTTP download fail when the URL contains double slash
- Fixed Session Timer on by default

- Fixed issues with Broadsoft Certificate
- Fixed audio collection failure when continuously pressing keys and swiping cards
- Fixed LLDP enabled SIP failed to register
- Fixed enabled silent alarm the Doorbell played.
- Fixed multiple RFID cards sharing same virtual number will cause private password invalid.
- Fixed GDSManager open door remotely the GDS3710 will not capture snapshot even configured.
- Fixed only calling first number in the alarm list
- Fixed confliction between Lock Keypad and Disable Auto Answer.
- Fixed mailbox configuration page cannot be closed.
- Fixed Wiegand keys output does not support private card PIN and private PIN.
- Fixed configuration file suffix displayed incorrectly.
- Fixed HTTPS failed to download the configuration file if file name with capital letters.
- Fixed alarm number deleted the device will still call the alarm phone when triggered.
- Fixed swipe card successfully will not cancel the unestablished SIP call.
- Fixed enable zero configuration will cause device reboot and download wrong data from UCM.
- Fixed text spelling error in Alarm Mail content.

## KNOWN ISSUES

- Occasionally the keypad will slow or no response to the input but will recover in seconds
- The SIP phone sending DTMF to GDS may sometimes hand up and clear the call
- Allowing to accept multiple calls at the same time
- The 2<sup>nd</sup> outbound proxy will not use the DNS-SRV parsing domain name.
- GDS will not prompt when IP address and Gateway inconsistent.
- Device will not update to new IP after switching the network until after reboot.
- Modify audio codec and video resolution may cause privacy failure occasionally.
- When unlocking latency is not zero, swiping card cannot clear unestablished SIP call.

## NEW P-VALUE

- P15425 Enable Weigand Output Authentication
- P14121 Weigand Output
- P6767 Firmware Upgrade Method
- P192 Firmware Server Path
- P6768 Firmware HTTP/HTTPS User Name
- P6769 Firmware HTTP/HTTPS Password
- P232 Firmware Upgrade File Prefix
- P233 Firmware Upgrade File Postfix
- P193 Automatic Upgrade Interval (Minutes)
- P212 Config Upgrade Method
- P237 Config Server Path
- P6776 Config HTTP/HTTPS User Name

- P6777 Config HTTP/HTTPS Password
- P234 Config Upgrade File Prefix
- P235 Config Upgrade File Postfix
- P2495 Enable Session Timer. 0: No. 1: Yes. Default is 0
- P424 Special Feature. 100: Standard. 102: Broadsoft. Default is 100
- P1360 HTTP/HTTPS User Name
- P1361 HTTP/HTTPS Password

## NEW HTTP API

cmd= <string>	call	http sip call cmd
Call_type= <int>	<0 1>	0: end call 1: call
Call_num= <string>		Call num or IP
P15425= <int>	<0 1>	Enable Weiqand Output Authentication 0: Disable 1: Enable
P14121= <int>	<0 1 2>	Weiqand Output 0: Disable 1: Relay and Local authentication 2: Relay and Bypass local
P6767= <int>	<0 1 2>	Firmware Upqrade Method 0: TFTP 1: HTTP 2: HTTPS
P192= <string>		Firmware Server Path
P6768= <string>		Firmware HTTP/HTTPS User Name
P6769= <string>		Firmware HTTP/HTTPS Password
P232= <strng>		Firmware Upgrade File Prefix
P233= <strng>		Firmware Upgrade File Postfix
P193= <int>	60 - 525600	Automatic Upgrade Interval (Minutes)
P212= <int>	<0 1 2>	Confiq Upqrade Method 0: TFTP 1: HTTP 2: HTTPS
P237= <string>		Config Server Path
P6776= <string>		Config HTTP/HTTPS User Name
P6777= <string>		Config HTTP/HTTPS Password
P234= <strng>		Config Upgrade File Prefix
P235= <strng>		Config Upgrade File Postfix

## NEW FEATURES OVERVIEW

This section lists major new features and describes how to use it from the user's point of view.

### CENTRAL MODE

- **Web Configuration**

This option can be found under device web UI → Dorr System Settings → Basic Settings → Card and Pin Schedule Configuration Mode.

#### Card and Pin schedule configuration Mode



Central Mode

- **Functionality**

This feature only works with GDSManager. If enabled, Card Infor, Group, Schedule, Holiday can be synchronized with CentralServer (aka: GDSManager). No matter information revision on Central Side or on individual GDS side, this feature will make the information synchronized, from GDSManager to GDSs, or vice versa. Otherwise the revised information will only updated locally. Default is Disabled.

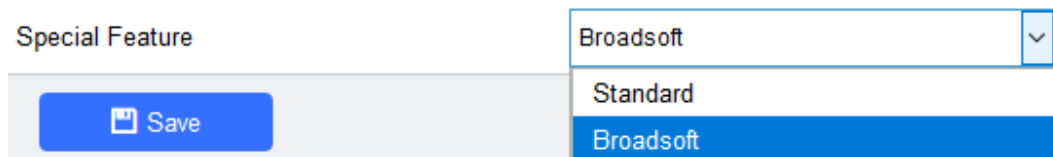
- **New Pvalue**

Pvalue	Description	Value Range	Default
P15301	<New Pvalue> Central Mode	0 / 1 (0:Disable 1:Enable)	0

### BROADSOFT MODE

- **Web Configuration**

This option can be found under device web UI → SIP Settings → SIP Advanced Settings → Special Feature.



Special Feature Broadsoft ▼

Save

- Standard
- Broadsoft

- **Functionality**

This feature allow GDS to be compatible with Broadsoft softswitch. When enabled, the GDS will be able to be automatically mass provisioned and controlled by Broadsoft Server and provide features and services in that platform according.



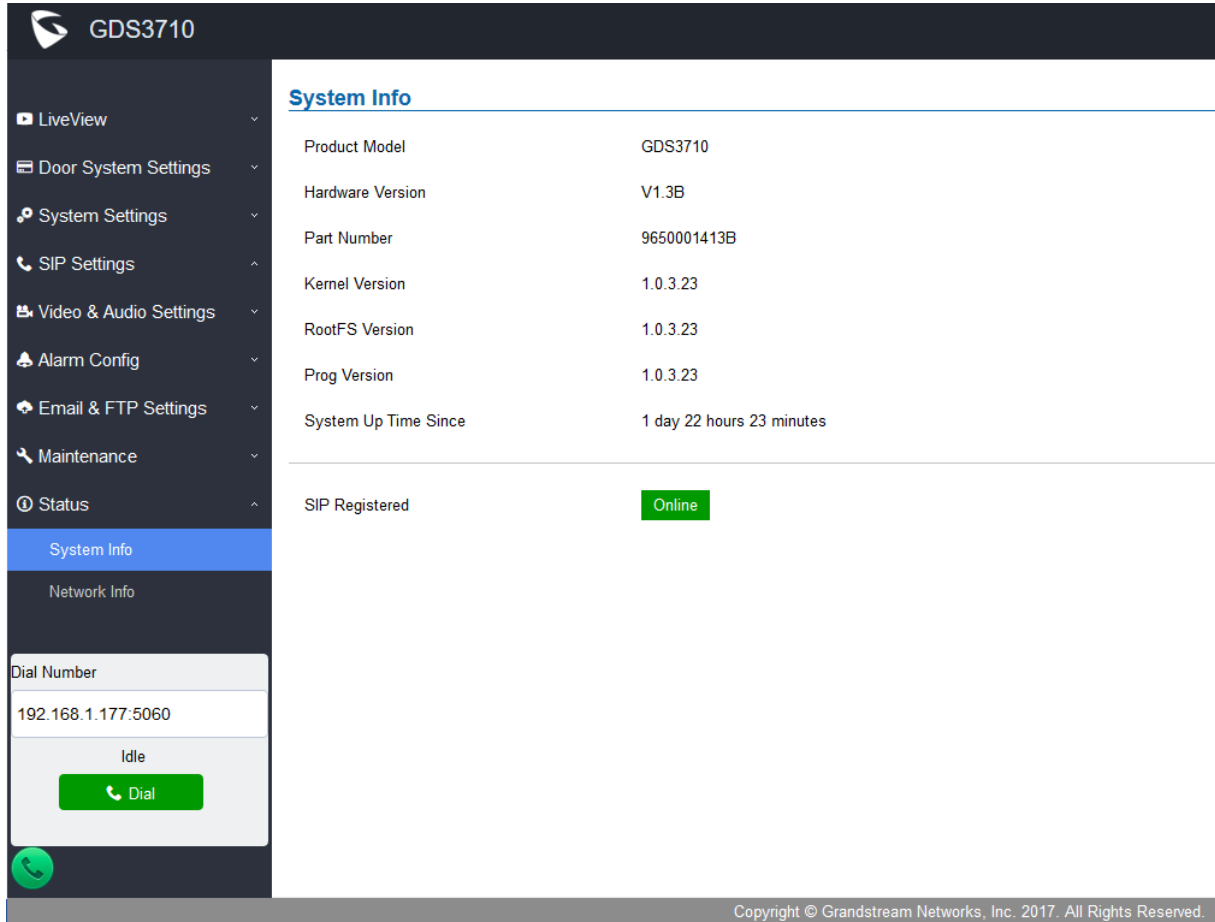
- **New Pvalue**

Pvalue	Description	Value Range	Default
P424	Configuration Special Features	Value = 100; Standard Value = 102; Broadsoft	100, Standard

### CLICK TO DIAL

- **Web Configuration**

This feature allows user to log into the GDS webGUI and call out from GDS via browser. Administration privilege is required to use this function.



The screenshot shows the GDS3710 web GUI interface. On the left is a navigation menu with options: LiveView, Door System Settings, System Settings, SIP Settings, Video & Audio Settings, Alarm Config, Email & FTP Settings, Maintenance, Status, System Info (highlighted), and Network Info. The main content area displays 'System Info' with the following details:

Product Model	GDS3710
Hardware Version	V1.3B
Part Number	9650001413B
Kernel Version	1.0.3.23
RootFS Version	1.0.3.23
Prog Version	1.0.3.23
System Up Time Since	1 day 22 hours 23 minutes

Below the system info, it shows 'SIP Registered' with a green 'Online' status indicator. At the bottom left, there is a 'Dial Number' input field containing '192.168.1.177:5060', an 'Idle' status, and a green 'Dial' button with a phone icon.

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- **Functionality**

User can input and dial SIP extension number or phone number if the GDS registered to an operating SIP server/proxy. If no SIP server involved, user can still input the IP address and port number of a known IP video phone or audio phone in the same LAN.



## FIRMWARE VERSION 1.0.3.13

### PRODUCT NAME

GDS3710 (*HW Supported: 1.3A, 1.3B, 1.5A, 1.6A*)

### DATE

12/3/2017

### SUMMARY OF UPDATE

This is **MAJOR UPDATE** with new SDK.

Strongly recommend users to back up all the data (both configuration and application) before update, also perform factory reset if the previous firmware is old version in different lever.

### IMPORTANT UPGRADING NOTE

- **Once upgraded to 1.0.3.x firmware, downgrading to 1.0.2.x or previous lower firmware version is NOT SUPPORTED.**
- **Factory Reset is recommended after upgrading from old 1.0.1.x or 1.0.2.x firmware.**
- **Please backup data before performing factory reset then restore back the data**

### FIRMWARE APPLIES TO BELOW HW VERSION ONLY

HW version	FW	Comments
GDS3710 HW1.3A	YES	Only support HTTP upgrade image
GDS3710 HW1.3B	YES	Only support HTTP upgrade image
GDS3710 HW1.5A	YES	
GDS3710 HW1.6A	YES	

### NEW P-VALUE

- |                                     |   |
|-------------------------------------|---|
| • Take snapshot when press keypad   | P15420=0/1 0: Disable 1: Enable           |
| • Enable Button to On Hook          | P14582=0/1 0: Disable (Default) 1: Enable |
| • Disable Keypad                    | P15421=0/1 0: Disable (Default) 1: Enable |
| • Enable Unlock to On Hook          | P15422=0/1 0: Disable (Default) 1: Enable |
| • Secondary Outbound Proxy          | P2433=string Max.Length=255               |
| • Enable two-way SIP Calling        | P8001=0/1 0: Disable 1: Enable            |
| • Card Issuing State Expire Time(m) | P15423=1-1440                             |
| • Enable Log Reporting              | P15410=0/1 0: Disable 1: Enable           |
| • HTTP Server Host                  | P15411=string Max. Length=128             |
| • HTTP Server Port                  | P15412=0-65535                            |
| • HTTP Server URL                   | P15413=string Max.Length=256              |
| • HTTP Server Username              | P15414=string Max.Length=128              |
| • HTTP Server Password              | P15415=string Max.Length=128              |

## ENHANCEMENT

- Improved the tool tip content of “Central Mode’
- Added option to disable alarm sound at phone side when event trigger SIP call to the phone.
- Increased maximum characters to 256 in “Number called when doorbell pressed” to allow serial hunting of SIP extensions or IP address with port or mixing of both, with each ring several seconds before going next.
- Added if schedule disabled, GDS3710 will bypass the option to open door.
- Enhanced the “Registration Expiration” timer settings.
- Adjusted some default values and its P values.
- Added feature to capture snapshot when doorbell pressed.
- Added feature to disable keypad input (lock keypad) and ONLY doorbell button can be pressed.
- Revised the tooltips of DI Open Door (alarm\_in and alarm\_out tooltips).
- Added option to disconnect call automatically after door open event.
- Added timer to expire Card Issuing Mode automatically.
- Added option to enable/disable call termination when OpenDoor Button (in the SIP phone side) pressed.
- Added ability for whitelist entries to open door using remote PIN.
- Implemented the HTTP Upload (RFID card) Log Event support for 3<sup>rd</sup> party Software Integration.
- Updated feature code input rule for \*# or \*\* for doorbell and end operation in 2 seconds if pressed wrong.
- Added VLAN and Priority Parameters in the LLDP settings.

## BUG FIX

- Fixed LLDP function not valid and IP will not automatically set to static if wrong VLAN Tag set.
- Fixed Wiegand lamp does not light up green when remote PIN entered to open door.
- Fixed Alarm Events Configuration displayed incorrectly.
- Fixed WDR mode very bright spot becoming pink issue and put back the WDR feature.
- Fixed swipe card still capture image even “capture image on unlock” unselected.
- Fixed unable to import the system configuration data.
- Fixed revising P value file with string like Holidays can still be imported
- Fixed using Hostage Code to open door if “capture image on unlock” un-checked, the device will not capture and upload the capture image.
- Fixed video cannot connect after motion detection alarm triggered.
- Fixed invalid P value in Holidays.
- Fixed SIP number is IP address and GDS as callee, DTMF unable to open door.
- Fixed GDS3710 cannot be searched and added by GVR355X NVR
- Fixed switch network the device restart
- Fixed network status page displayed error with default IP 192.168.1.168

- Fixed Group Information cannot be synchronized with GDSManager.
- Fixed initial delay in the audio call.
- Fixed \* and \*\* not allowed in “Number called when doorbell pressed”.
- Fixed cannot handle IPPBX feature code “\*\*\*”
- Fixed card information cannot be modified with IE9.
- Fixed DTMF set to SIP INFO or RFC2833, the open door function is invalid.
- Fixed device not reboot after receiving check-sync SIP message.
- Fixed STUN server filled the device will not send out Keep Alive packet.
- Fixed enable LLDP reboot the device will not do SIP registration.
- Fixed the PIN format is not consistent depending on In or Out call directions
- Fixed the schedule importing failed.
- Fixed DTMF cannot dial out from GDS3710 to interact with IVR.
- Fixed Guest PIN time duration unable to save.
- Fixed one-way audio issue in SIP call.
- Fixed in some network environment enable LLDP sometimes the device will not get IP address.
- Fixed using FQDN SIP domain name sometimes cause the key press no response.
- Fixed swipe card successfully the established unanswered SIP call by pressing doorbell not cancelled.
- Fixed keypad locked but the blue light still response to keypad pressing, should be no response.
- Fixed initial audio delay when audio call established.
- Fixed noise audio issue at the GDS output/speaker.
- Fixed invalid RFID card its mapped SIP extension can still remote open door by SIP call.
- Fixed if muted key tone, the wrong password input without prompt tone.
- Fixed UCM zero configuration the data pushed from UCM to GDS will not synchronized in GDS webGUI display.
- Fixed OSD time set for 12H the display in LiveView is not complete.
- Fixed card management page the information cannot be modified.
- Fixed when changing audio codec to G.722, the volume suddenly becomes louder.
- Fixed illegal format file imported to card management page without prompt warning.

## KNOWN ISSUES

- The SIP phone sending DTMF to GDS may sometimes hand up and clear the call
- The alarm email text content may have error characters.
- When Doorbell On Hook uncheck but call established, press the button during the call in session will actually initial a new call and hold current call.
- GDS will accept new incoming call and automatically hold previous call but cannot get out of hold for previous call. GDS should reply 486 and reject all new incoming call when 1<sup>st</sup> call established.
- The 2<sup>nd</sup> outbound proxy will not use the DNS SRV parsing domain name.
- Occasionally the keypad will slow or no response to the input but will recover after seconds

## NEW FEATURES OVERVIEW

This section lists major new features and describes how to use it from the user's point of view.

### CENTRAL MODE

- **Web Configuration**

This option can be found under device web UI → Dorr System Settings → Basic Settings → Card and Pin Schedule Configuration Mode.

#### Card and Pin schedule configuration Mode



- **Functionality**

This feature only works with GDSManager. If enabled, Card Infor, Group, Schedule, Holiday can be synchronized with CentralServer (aka: GDSManager). No matter information revision on Central Side or on individual GDS side, this feature will make the information synchronized, from GDSManager to GDSs, or vice versa. Otherwise the revised information will only updated locally. Default is Disabled.

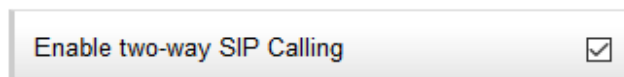
- **New Pvalue**

Pvalue	Description	Value Range	Default
P15301	<New Pvalue> Central Mode	0 / 1 (0:Disable 1:Enable)	0

### DISABLE ALARM SOUND AT PHONE SIDE FOR TRIGERED SIP CALL

- **Web Configuration**

This option can be found under device web UI → SIP Settings → SIP Advanced Settings → Enable two-way SIP Calling.



- **Functionality**

This feature allow GDS to start two-way audio immediately at event triggered alarm calls. Default is checked, the alarm call triggered from GDS to phone will play pre-recorded Siren sound to the phone (user at phone side can press any key from the phone to stop Siren sound and start two-way communication).

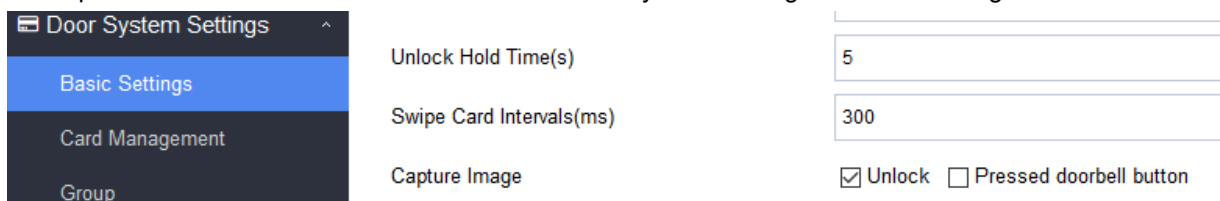
- **New Pvalue**

Pvalue	Description	Value Range	Default
P8001	Enable two-way SIP Calling	Value = 0; Disabled Value = 1; Enabled	1: Enabled

### CAPTURE IMAGE WHEN DOOR BELL PRESSED

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings.



The screenshot shows the 'Door System Settings' menu with 'Basic Settings' selected. The configuration options are:

- Unlock Hold Time(s): 5
- Swipe Card Intervals(ms): 300
- Capture Image:  Unlock  Pressed doorbell button

- **Functionality**

This feature allow GDS to take snapshot and upload to Central Server (GDSManager) or FTP server or send email attachment using preconfigured email account. Default is take snapshot when door unlocked.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P15420	Capture Image on Pressing Doorbell	Value = 0; Disabled Value = 1; Enabled	0: Disabled

### DISABLE KEYPAD

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings.

Enable Doorbell Button to Hang Up Call

Disable Keypad

- **Functionality**

This feature allow user to lock and disable all keypad except the doorbell, so only press doorbell the GDS will be response. This meets some special usage scene where user only wants the doorbell.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P15421	Disable Keypad	Value = 0; Disabled Value = 1; Enabled	1: Enabled

### ENABLE REMOTE UNLOCK TO ON HOOK

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings.

Enable Remote Unlock to On Hook

- **Functionality**

This feature will allow GDS to clear the call 5 seconds after the phone side successfully opened the door remotely. This will be convenient for IP phone users in case using hands free or speaker mode opening door remotely but forgetting hand up the phone to clear the call.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P15422	Enable Remote Unlock to On Hook	Value = 0; Disabled Value = 1; Enabled	0: Disabled

### DISABLE AUTO ANSWER

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings.

Enable Guest PIN

Disable Auto Answer

- **Functionality**

This feature allow to disable the default Auto Answer feature of the GDS door phone. The GDS will keep on ringing when called until someone press any button to pick up the call. This feature is for some special usage scenarios. Default is enable and GDS is in Auto Answer mode.



- **New Pvalue**

Pvalue	Description	Value Range	Default
P14580	Disable the Auto Answer of GDS	Value = 0; Disabled Value = 1; Enabled	1: Enabled

### ENABLE DOORBELL BUTTON TO HANG UP CALL

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings.

Enable Doorbell Button to Hang Up Call

Disable Keypad

- **Functionality**

This feature allow doorbell button to be pressed to hand up the ongoing call, in case the number dialed is wrong or the callee is not available to answer the call made from the GDS door phone. Default is disabled.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P14582	Enable the Doorbell Button to Handup Call	Value = 0; Disabled Value = 1; Enabled	0: Disabled

### CARD ISSUING STATE EXPIRED TIME

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings → Card Issuing State Setting → Enable Card Issuing Mode

#### Card Issuing State Setting

Enable Card Issuing Mode

Card Issuing State Expire Time(m)

- **Functionality**

This feature will only available when “Enable Card Issuing Mode” select and enabled. The default value is 5 minutes. This feature will allow GDS to exist from the Card Issue Mode when the configured timer expired, This will help to prevent the human error in case the “Card Issuing Mode” is enabled and not restore back to the normal operation mode therefore the GDS is not operating as usual.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P15423	Card Issuing Mode Effective Timer	Value Range (in Minutes): 1 ~ 1440	5 Minutes

## LIGHT SETTINGS

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings → Light Settings

### Light Settings

Enable Key Blue Light	<input checked="" type="checkbox"/>
Enable Background Light	<input checked="" type="checkbox"/>

- **Functionality**

This feature allow user to turn ON or OFF the Key Blue Light and the Background Light (White LED Light). Default both set of lights are On, so when key pressed the blue light will light up to show the key pressed, and the background white LED will light up to illuminate the user doing the operation.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P14800	Enable Key Blue Light	Value = 0; Disabled Value = 1; Enabled	1: Enabled
P14801	Enable Background Light	Value = 0; Disabled Value = 1; Enabled	1: Enabled

## ENABLE DOORBELL BLUE LIGHT PER SETTINGS

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings.

### Blue Doorbell Light Lighting Time Settings

Enable Blue Light	<input checked="" type="checkbox"/>
Start Time	17 : 00 : 00
End Time	23 : 00 : 00

- **Functionality**

This feature allow doorbell button blue light turn ON and OFF based on configured time schedule. For example user can configure the doorbell button light up in Blue Light in the evening when environment is dark without enough illumination. Default is disabled.

- **New Pvalue**


Pvalue	Description	Value Range (Pure Digital String)	Default
P14560	Doorbell Blue Light Start Time	MAX length is 6. Example: 125900 -> 12:59:00	000000
P14561	Doorbell Blue Light End Time	MAX length is 6. Example: 125900 -> 12:59:00	000000

## ENABLE LOG REPORT

- **Web Configuration**

This option can be found under device web UI → Maintenance → Log Manager.

### Log Manager

Enable Log Reporting	<input checked="" type="checkbox"/>
HTTP Server URL	<input type="text"/>
HTTP Server Username	<input type="text"/>
HTTP Server Password	<input type="password"/> 

- **Functionality**

This feature allow user to configure the Log Reporting feature via HTTP Server. The live log information will be sent to pre-configured HTTP Server for storage, diagnose and processing. The HTTP server can generate all kinds of related report based on the logs received. This is good for 3<sup>rd</sup> party redevelopment application usage.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P15410	Enable Log Reporting	Value = 0; Disabled, 1; Enabled	0: Disabled
P15413	HTTP Server URL	Format: http://ip:port/path e.g.: http://192.100.10.10:80/	String. Max. Length=256
P15414	HTTP Server Username	String, Max. Length=128	String
P15415	HTTP Server Password	String, Max. Length=128	String.

## FIRMWARE VERSION 1.0.2.25

### PRODUCT NAME

GDS3710 (*HW Supported: 1.2A, 1.3A, 1.3B, 1.5A, 1.6A*)

### DATE

11/8/2017

### SUMMARY OF UPDATE

The main purpose of this release is bug fixes and feature enhancement

### IMPORTANT UPGRADING NOTE

This version stopped HW1.2A/1.3A/1.3B fabrication support, still **support HTTP upgrade**.

Firmware applies to below HW versions:

HW version	FW	Comments
GDS3710 HW1.2A	YES	<b>Only support HTTP upgrade image</b>
GDS3710 HW1.3A	YES	<b>Only support HTTP upgrade image</b>
GDS3710 HW1.3B	YES	<b>Only support HTTP upgrade image</b>
GDS3710 HW1.5A	YES	
GDS3710 HW1.6A	YES	

### NEW P-VALUE

- Enable Log Reporting                    P15410=0/1 (0: Disable 1: Enable)
- HTTP Server Host                        P15411=String (Max. Length=128)
- HTTP Server Port                        P15412=0-65535
- HTTP Server URL                        P15413=String (Max.Length=256)
- HTTP Server Username                P15414=String (Max.Length=128)
- HTTP Server Password                P15415=String (Max.Length=128)

### ENHANCEMENT

- Added if schedule disabled, GDS3710 will bypass the option to open door.
- Implemented the HTTP Upload (RFID card) Log Event support for 3<sup>rd</sup> party Software Integration.

## BUG FIX

- Fixed the initial delay in audio call
- Fixed the time will not be updated by NTP server after GDS reboot.
- Fixed the password field displayed with error.
- Fixed special character can be save and stored in Unlock Hold Time
- Fixed the system basic page display abnormal issue.
- Fixed GDS3710 cannot be searched and added by NVR GVR355x (via ONVIF)
- Fixed the P value is invalid for holiday
- Fixed Group information cannot be synchronized with GDSManager.
- Fixed reboot device after enable LLDP, SIP account may not be able to register.
- Fixed delete the RFID card operation the cancel icon not working
- Fixed enable LLDP might not be able to get IP address via DHCP in some (VLAN) environment

## FIRMWARE VERSION 1.0.2.22

### PRODUCT NAME

GDS3710 (HW Supported: 1.2A, 1.3A, 1.3B, 1.5A, 1.6A)

### DATE

09/18/2017

### SUMMARY OF UPDATE

The main purpose of this release is bug fixes

### IMPORTANT UPGRADING NOTE

- **Once upgraded to 1.0.2.x firmware, downgrading to 1.0.1.x or lower firmware version is NOT supported.**
- **Factory Reset is recommended after upgrading from 1.0.1.x to 1.0.2.x.**
- **Please backup data before performing factory reset then restore the data**

### BUG FIX

- Fixed when uncheck "center mode", GDSManager group relationship etc. will fail.
- Fixed group deleted, group status and information disabled but card swiping fail.
- Fixed DTMF function is invalid at some cases.
- Fixed in Privacy Mask page the Show MD Region is invalid.
- Fixed set to 12-hour display format will not take effect and show wrong format.
- Fixed Silent Alarm option displaying errors.
- Fixed DTMF option format displayed wrong in IE browser.
- Fixed deleted 2<sup>nd</sup> alarm receiving email account the email still delivering.
- Fixed personnel, gender displaying error when card number is 0
- Fixed Weigand Output feature issue.

## FIRMWARE VERSION 1.0.2.21

### PRODUCT NAME

GDS3710 (HW Supported: 1.2A, 1.3A, 1.3B, 1.5A, 1.6A)

### DATE

08/31/2017

### SUMMARY OF UPDATE

The main purpose of this release is bug fixes and feature enhancement

### IMPORTANT UPGRADING NOTE

- **Once upgraded to 1.0.2.x firmware, downgrading to 1.0.1.x or lower firmware version is NOT supported.**
- **Factory Reset is recommended after upgrading from 1.0.1.x to 1.0.2.x.**
- **Please backup data before performing factory reset then restore the data**

### ENHANCEMENT

- Allow config and call IP address format on SIP field when dialing the Virtual Number
- Added "Silent Alarm" Mode
- Added option Backup/Restore including all passwords like SIP/FTP/RemoteAccess, etc.
- Added schedule support for Card and PIN
- Added LLDP support
- Added database automatic backup and synchronization
- Modified WebGUI style
- Added card information batch delete option in the WebGUI
- Added option to enable "Motion Detection", "Tamper Alarm" and backlight partially light
- Added card user limitation up to 2000 and group limit to 50.
- Added Card and PIN schedule configuration Central Mode. If enabled, the Group/Schedule/Holiday could only be synchronized from the Central of the GDS Manager
- Added LDC Ratio Control and Adjustment
- Expanded the range of Ring timeout
- Added option to disable Auto Answer
- Updated the "DingDong" tone when doorbell pressed
- Added function to check the default value
- Added Factory Reset via special procedures. Details please refer to updated User Manual
- Added file upload/download (card information, configuration etc.) can be executed after authentication
- Added enforcement when admin password is changed via WebGUI, user has to fill in a Valid Email



- Account to retrieve the email before the new admin password taking effect

## **BUG FIX**

- Fixed Guest PIN invalid when modifying the guest pin conflicting with local PIN.
- Fixed the Blue Light turning off 1 minute late than configured time.
- Fixed SIP number is not displayed correctly at card management page.
- Fixed Holiday cannot display Chinese
- Fixed adjust resolution will make the Privacy Mask not working
- Fixed private door password displayed empty when PIN not configured
- Fixed error Email Format giving out confused prompt
- Fixed static IP with different subnet cannot be searched by GDSManager and GSuf\_Pro
- Fixed Wiegand Output function is invalid sometimes.
- Fixed ONVIF device\_service restart issue
- Fixed adjust and save the Door System setting page will restart the SIP client process
- Fixed Digital Input if in Open State, the Alarm State should also be in Open State
- Fixed revise the Group, Schedule and Holiday cannot be saved
- Fixed Wiegand Input can be directed to different protocol of the device
- Fixed Wiegand Input can be used as personal PIN to open the door
- Fixed one invalid P-value will fail the entire XML file import
- Fixed delete the group should automatically switch to disable card in that group
- Fixed group not available to displayed when carried schedule with holidays
- Fixed Weigand Input can still open door even the “Weigand Input” disabled
- Fixed exported configuration file missing P values of group, schedule and holidays
- Fixed issue when editing the region of Privacy Masks
- Fixed DHCP Option 66 invalid issue
- Fixed phone hand up but the doorbell still ringing
- Fixed Motion Detection sensibility is abnormal
- Fixed mute Key Tone will cause RFID card not response
- Fixed using Wiegand Input successfully open door via password but LED of Wiegand device is wrong

## FIRMWARE VERSION 1.0.2.13

### PRODUCT NAME

GDS3710 (HW Supported: 1.2A, 1.3A, 1.3B, 1.5A, 1.6A)

### DATE

06/26/2017

### SUMMARY OF UPDATE

The main purpose of this release is bug fixes and feature enhancement

### IMPORTANT UPGRADING NOTE

- **Once upgraded to 1.0.2.x firmware, downgrading to 1.0.1.x or lower firmware version is NOT supported.**
- **Factory Reset is recommended after upgrading from 1.0.1.x to 1.0.2.x.**
- **Please backup data before performing factory reset then restore the data**

### ENHANCEMENT

- Supported **ONVIF Profile S**
- Added "**Privacy Mask**" support in Motion Detection Setting
- Updated OCX plugin engine to Version 3.1.0.74
- Added DTMF Open Door control option in WebGUI
- Supported HTTP API
- Optimized HTTP API for Card Management
- Added "enable blue doorbell light" option in the webGUI
- Added switch on the doorbell blue light by configured time period of the day.
- Implemented "Silent Alarm" mode
- Added HTTP API for getting snapshots and streams.
- Removed the size limit of load kernel

## **BUG FIX**

- Fixed reload data is invalid.
- Fixed privacy mask may not work when adjusting CMOS video settings
- Fixed the initialization of DO causing short pulse when power up the device.
- Fixed webGUI may lose access when switching audio codecs.
- Fixed after getting IP address, the webGUI may not be accessible immediately.
- Fixed adjusting Mode, LED and Power Frequency settings may cause abnormal shutter speed.
- Fixed the display error of time zone.
- Fixed P value not working for enable DTMF Open Door.

## FIRMWARE VERSION 1.0.2.9

### PRODUCT NAME

GDS3710 (HW Supported: 1.2A, 1.3A, 1.3B, 1.5A, 1.6A)

### DATE

06/1/2017

### SUMMARY OF UPDATE

The main purpose of this release is bug fixes to response to market feedback.

### IMPORTANT UPGRADING NOTE

- **Once upgraded to 1.0.2.x firmware, downgrading to 1.0.1.x or lower firmware version is NOT supported.**
- **Factory Reset is recommended after upgrading from 1.0.1.x to 1.0.2.x.**
- **Please backup data before performing factory reset then restore the data**

### ENHANCEMENT

- Corrected errors in local PIN type tool tips.
- Add back DTMF Open Door as optional choice, with user acknowledging the security risk.
- Revised "Alarm Output Duration(s)" choice option as 5/10/15/20/25/30 seconds.

### BUG FIX

- Fixed exporting file P value issue with Motion Detection data.
- Fixed changing the SSH port, it can be saved but cannot be accessed.
- Fixed device falling into reboot loop when failing to obtain IP address from network.
- Fixed ONVIF implementation causes automatic reboot due to memory leak.
- Fixed the initialization of DO causing short pulse when power up the device.
- Fixed back light and ring light issue when device rebooted.

## FIRMWARE VERSION 1.0.2.5

### PRODUCT NAME

GDS3710 (*HW Supported: 1.2A, 1.3A, 1.3B, 1.5A, 1.6A*)

### DATE

05/18/2017

### SUMMARY OF UPDATE

This firmware version is a MAJOR update, with lots of bug fixes and feature enhancement

### IMPORTANT UPGRADING NOTE

- **Once upgraded to 1.0.2.x firmware, downgrading to 1.0.1.x or lower firmware version is NOT supported.**
- **Factory Reset is recommended after upgrading from 1.0.1.x to 1.0.2.x.**
- **Please backup data before performing factory reset then restore the data**

### ENHANCEMENT

- Added folder creation and file arrangement if multiple GDS3710s are uploading snapshots to FTP server.
- Improved the password prompt wording.
- Added DTMF audio playing when key be pressed.
- Separated volume control in webGUI.
- Added "Audio, Snapshot, Recording and File Path Saved" operation with icons at Live View webpage.
- Added "show password" feature when the eye icon be clicked in the webGUI.
- Added prompt popup message when capture button clicked.
- Use different email title to separate the Motion Detection and Temperature Out of the Range alarm.
- Set initial value of "0" for Virtual Number and SIP number if user leaving the field empty.
- Added support open door remotely via GDS Manager utility (after GDS Manager version 1.0.0.78)
- Supported GXP color phone JPEG\_Over\_HTTP support with encryption and authentication.
- Added SSH support with default TCP port 22, obsolete TELNET.
- Added GS\_Wave (Android/iOS) Application support for Open Door.
- Added PING function in SSH CLI interface.
- Enhanced webGUI login process and added random default password.
- Enhance security by disable the DTMF to open door
- Disabled WDR Mode (temporarily, will enable once the pink color bug fixed)
- Added support of sending DTMF tone in SIP calling (RFC2833, SIP INFO)

## BUG FIX

- Fixed web port and RTSP port not correct.
- Fixed exported system configuration data cannot be imported successfully.
- Fixed illegal or special characters can be saved into card number.
- Fixed non-digit characters can be saved into open door PIN field.
- Fixed abusively pressing keypad could make the key tone distorted and blue LED lighted abnormally.
- Fixed capture image not working when configured as “Card & Private PIN Mode”.
- Fixed exported configuration file without speaker volume, key tone volume and doorbell volume.
- Fixed Motion Detection selected region failed to be restored when exported.
- Fixed Option 66 feature not working.
- Fixed duplicated RFID card number can be added without prompt.
- Fixed the shutter speed not adjustable issue.
- Fixed failed test cases for ANATEL certification
- Fixed issue in peered IP Calling.
- Fixed P value cannot be written if the shutter speed is 1/5000.
- Fixed GDS3710 reboot cycle if P value is imported to the device incorrectly.
- Fixed firmware upgrade process could cause device to be automatically factory reset.
- Fixed Motion Detection sometimes abnormal issue.
- Fixed switching HTTPS to HTTP the port remain the same issue.
- Fixed cannot call GDS3710 via a number when peered with another device via IP.

## FIRMWARE VERSION 1.0.1.19

### PRODUCT NAME

GDS3710 (*HW Supported: 1.2A, 1.3A, 1.3B, 1.5A*)

### DATE

03/06/2017

### SUMMARY OF UPDATE

The main purpose of this release is bug fix and feature enhancement since \$1 Beta

### ENHANCEMENT

- Added a button to view the password entered.
- Added "Guest Mode" for access control.
- Corrected some typo and wording reported.
- Added option to enable SIP extension call by dialing keypad directly.
- Removed the startup audio.
- Added OSD information into the alarm message title.
- Added RFIC card and Private PIN double authentication to improve the open door security.
- Added challenge-response algorithm to open door.
- Improved FTP snapshot filename by adding MAC address and event type.
- Update and improved G.722 AEC parameters.
- Reduced alarm email and attachment.
- Added function to allow all passwords been imported.
- Started one firmware file support from this version.
- Limited the remote PIN to open door to be pure digits only with maximum length of 8.
- Limited the maximum length of login password to be 32 characters.

## BUG FIX

- Fixed device still have sound when volume set to 0
- Fixed AEC may fail sometimes at some special audio scenarios.
- Fixed HTTP Upgrade request the user-agent does not contain device name, hardware version and software version information for provisioning.
- Fixed press door bell will hand up alarming phone call.
- Fixed web port changing from 443 to 80, HTTPS cannot be accessed.
- Fixed no P value for shutter speed and interval of swiping card.
- Fixed click the UPnP cannot access the web interface.
- Fixed email setting page prompting error after clicking “Save”.
- Fixed open door operation will clear all the pending calls, leave ongoing call untouched.
- Fixed configuration data cannot be imported normally.
- Fixed alarm email with abnormal name.
- Fixed no prompt tone when guest not input PIN in the required time window.
- Fixed input the wrong PIN, then correct PIN, the device will not open door.
- Fixed the RTSP value range, should be set to 554-65535.
- Fixed the snapshot filename different in FTP and Email.
- Fixed guest PIN and Private PIN confliction issue.
- Fixed DHCP OPTION66 not working problem.
- Fixed alarm snapshot cannot be uploaded to the central storage server.
- Fixed open door via PIN the equipment log sometime not match the record.
- Fixed the web port and RTSP port is not correct
- Fixed Guest PIN open door issue.