GDS3710 Firmware Release Notes

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FIRMWARE VERSION 1.0.4.9

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

DATE
11/21/2018

SUMMARY OF UPDATE
This is **MAJOR UPDATE** with purpose of bug fixes and feature enhancement. Please read below WARNING carefully before upgrading.

It’s strongly recommended for users to back up all the data (both configuration and application) before upgrade, also perform factory reset if the previous firmware is an old version in different FW level.

**WARNING:**
- **Self-reboot** TWICE is required to finish the whole upgrade process and it can take about **20 minutes**. Please be patient and **DO NOT interrupt power**. Incomplete upgrade can potentially brick the device.
- Please press keypad to verify the upgrade is finished. If BEEP sound heard and BLUE LED lighted up upon pressing, the means the device finished upgrading and booted up successfully. If other LED patterns are in progress or there is no BEEP sound/BLUE light, the device hasn't finished upgrade yet, **DO NOT unplug power during this stage to prevent damaging the device**.
- **After upgrading**, please download **GS_Search** utility tool and perform a search within LAN using your PC. The device should show up in search result with the correct firmware version. Double clicking it will open device web UI successfully. That indicates upgrading has completed successfully.
- Once upgraded to 1.0.4.x firmware, **downgrade** to previous lower lever firmware (1.0.1.xx/1.0.2.xx/1.0.3.xx) is **NOT SUPPORTED**.
- Local firmware upgrade recommended. Please download and use the **GS Upgrade Tool** provided by Grandstream for local firmware upgrade, avoiding internet or power interruption to brick the device.
- For 1.0.1.xx and 1.0.2.xx firmware, single firmware file not supported and multiple unzipped binary files are required for successful upgrade. Please allow at least **20 minutes** for local upgrade before log in back to check or power cycle the device.
- **Factory Reset** is recommended after upgrading from previous lower lever firmware. Please backup data before performing factory reset then restore back the data.
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>GDS3710 HW1.3A</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.7A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

ENHANCEMENT
- Added support for TLSV1.2
- Optimized firmware upgrade process and reduced self-reboot from three time to twice.
- Support single firmware file upgrade with 6bit ECC.
- Single firmware file upgrade supported since 1.0.3.35. Previous lower lever firmware 1.0.1.xx/1.0.2.xx upgrade requires firmware with multiple binary files. Two firmware packages provided.

BUG FIX
- Fixed probability issue in 1.0.4.5 where upgrading from previous firmware if amboot not upgraded will stop the upgrade process therefore brick the device.
- Fixed device keep on playing doorbell sound if account unregistered.
- Fixed issue that keypad not response sometimes.
- Fixed security vulnerability that root access may compromised via SSH.

KNOWN ISSUES
- LiveView page, the page may crash if click the “Local Configuration Function”
- INVITE to an ICMP address, the doorbell still rings as normal.
- The panel lights might off during the call.

NEW P-VALUE
- N/A

NEW HTTP API
- N/A

Released HTTP API documentation can be downloaded from here:

FIRMWARE VERSION 1.0.4.5 (REMOVED)

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

DATE
09/13/2018

SUMMARY OF UPDATE
This is MAJOR UPDATE with purpose of bug fixes and feature enhancement. Please read below WARNING carefully before upgrading.

It’s strongly recommended for users to back up all the data (both configuration and application) before upgrade, also perform factory reset if the previous firmware is an old version in different FW level.

WARNING:
- Three-times self-reboot is required to finish the whole upgrade process and it can take more than 30 minutes. Please be patient and DO NOT interrupt power until 30 minutes later. Unplugging it before complete upgrade can potentially brick the device.
- After 30 minutes, please press any button on the device keypad to verify the symptom of complete upgrade. If it has a BEEP sound and BLUE light for the button light up upon pressing, the device has finished upgrading and rebooted successfully. If other patterns are in progress or there is no BEEP sound/BLUE light, the device hasn’t finished upgrade yet, DO NOT unplug power during this stage to prevent damaging the device.
- After upgrading, please download GS Search app and perform a search within LAN using your PC. The device must show up in search result with the correct firmware. Double clicking it will open device web UI successfully. That indicates upgrading has successfully completed.
- Once upgraded to 1.0.4.x firmware, downgrade to previous lower lever firmware (1.0.1.xx/1.0.2.xx/1.0.3.xx) is NOT SUPPORTED.
- Local firmware upgrade recommended. Please download and use the GS Upgrade Tool provided by Grandstream for local firmware upgrade, avoiding internet or power interruption to brick the device.
- For 1.0.1.xx and 1.0.2.xx firmware, all the unzipped binary files are required for successful upgrade. Please allow at least 30 minutes in local upgrade before log in back to check or power cycle the device.
• **Factory Reset** is recommended after upgrading from previous lower lever firmware. 
  *Please backup data before performing factory reset then restore back the data.*

**FIRMWARE APPLIES TO BELOW HW VERSION ONLY**

<table>
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<tr>
<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.7A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

**ENHANCEMENT**

- Single firmware file upgrade supported with 6bit ECC.
- Support parallel hunting (simultaneously ringing configured extensions and/or IP addresses) when doorbell pressed.
- Added Card_ID, SIP extension, etc. details in the HTTP Event Notification.

**BUG FIX**

- Fixed DTMF open door issue with early media, SIN INFO.
- Fixed alarm not fired when enable silent alarm with schedule configured.
- Fixed initial audio chopped off issue with outgoing calls from GDS3710.
- Fixed Log Notification Type missing.
- Fixed call fails when dialing digit length less than the maximum number of digits.
- Fixed audio may be noisy after long time (in hours) of call (not feasible in real environment)
- Fixed No plugin preview not working when MJPEG video codec configured.
- Fixed “Card Issuing Mode Expired Timer” cannot be saved.
- Fixed key light not bright enough when using HTTP API to open the door.
- Fixed GDS3710 SSH access unauthorized with static IP address after reboot.
- Fixed the temperature alarm email cannot be sent normally.
- Fixed timer error when hanging up the call.
- Fixed spotted video image when switching call lines in GDS3710.

**KNOWN ISSUES**

- Video JPEG stream will fail in GXP audio phones when NAT involved.
- The SIP phone sending DTMF to GDS may sometimes hang up and clear the call
- Device will fail to send DNS resolution when Stun Server using FQDN (only IP Stun works)
- The 2nd outbound proxy will not use the DNS-SRV parsing domain name.
- The option may crash if click the “Local Configuration Function”
- INVITE to an ICMP address, the doorbell still rings as normal.
- The panel lights might off during the call.

**NEW P-VALUE**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Values</th>
<th>Default Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15434=&lt;int&gt; (Add)</td>
<td>0 -- 1</td>
<td>0</td>
<td>0. Serial Hunting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1. Parallel Hunting</td>
</tr>
</tbody>
</table>

**NEW HTTP API**

*GET:*

```
<http|https>://ip:port/goform/config?cmd=get&type=door
```

*SET:*

```
<http|https>://ip:port/goform/config?cmd=set&P15434=<0|1>
```

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.

**PARELLEL HUNTING/SIMUTANEOUS RINGING WHEN DOORBELL PRESSED**

- Web Configuration

This option can be found under device web UI→ Basic Settings→:
• **Functionality**

This feature allows user to configure SIP extensions (if having IPPBX) or IP addresses (if no IPPBX) or combined into the “Number Called When Door Bell Pressed” field, so the doorbell pressed, those IP phones will ring simultaneously (ringing at the same time). Anyone pick up the phone will be able to talk to the GDS3710 (or viewing the image at capable IP Phones), then press the digit PIN to open the door remotely, or use the “ONE KEY OPEN DOOR” feature if configured correctly with compatible IPPBX and IP Phones.

In “Door Bell Call Mode”, there are two options in the pull down menu: Serial Hunting, Parallel Hunting. “Serial Hunting” means extensions and/or/combined IP devices ring one after one by order (this feature has already been supported in previous firmware); “Parallel Hunting” means all the extensions and/or/combined IP devices ring simultaneously at the same time (new feature in this firmware).

User can select either one depending on the application scenarios.

**EVENT NOTIFICATION**

• **Web Configuration**

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

This is an enhancement for an existing features after feedbacks from customers.

Added Card_ID, SIP extension, etc. details in the HTTP Event Notification which not supported in previous firmware. This will allow 3rd party system integrator or developers to implement related application for users. Details please refer to User Menu and HTTP API

If enabled, device can send HTTP events to related web server and allow 3rd party system integrators to implement dedicated usage applications for customers (e.g.: live monitor the door access status).

Released HTTP API documentation can be downloaded from here:

- New P-value

<table>
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<tr>
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<td>0 -- 1</td>
<td>0</td>
<td>2. Serial Hunting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3. Parallel Hunting</td>
</tr>
</tbody>
</table>

- New HTTP API

**GET:**

<http|https>://ip:port/goform/config?cmd=get&type=door

**SET:**

<http|https>://ip:port/goform/config?cmd=set&P15434=<0|1>

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

FIRMWARE VERSION 1.0.3.35

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

DATE
07/16/2018

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

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<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.7A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>
**ENHANCEMENT**
- Added option to assign a schedule to the doorbell.
- Added option to set the maximum number of digits dialed.

**BUG FIX**
- Fixed FTP upload process incompatible issue.
- Fixed when Motion Detection enabled, alarming triggered but SIP call failed.
- Fixed fail to send DNS resolution when Stun Server using FQDN (only IP Stun works)
- Fixed pressing keypad during network interruption or outage, the key tone keep buzzing.
- Fixed hostage code in use, "Enable on hook after remote door opened" should be invalid (setting overlapped) to know the hostage situation at door side.
- Fixed RTSP feature options should be: Disabled, Enable and Forced, Enable but not Forced.
- Fixed webUI misaligned in the Data Maintenance page.
- Fixed WebUI error heading under Network Infor submenu.
- Fixed the red prompted will pop up twice when wrong password inputted.
- Fixed the missing type of Log Notification (System Up).
- Fixed and specified the default initial start time of card is “1970-01-01” when adding.
- Fixed when MJPEG Authentication is different with the request the response message still return.

**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
- The 2nd 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

- **Option to Assign Schedule to Door Bell.**
  This feature allows the user to configure a schedule for the Doorbell Button. Once configured, the doorbell button will turn on or off based on the configured schedule. For example, some users do not want the doorbell to work during the night.

- **Maximum Number of Dialed Digits**
  This feature allows the user to configure the maximum digits allowed to dial in the keypad. Once the configured condition is satisfied, the device will send out the digit to call automatically without pressing #.

NEW P-VALUE

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Values</th>
<th>Default Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15419=&lt;int&gt; (Add)</td>
<td>0 -- 20</td>
<td>0</td>
<td>Maximum Number of Dialed Digits</td>
</tr>
<tr>
<td>P15418=&lt;int&gt; (Add)</td>
<td>0 -- 10</td>
<td>0</td>
<td>Press Doorbell Schedule</td>
</tr>
<tr>
<td>P443=&lt;int&gt; (Update)</td>
<td>0 -- 2</td>
<td>0</td>
<td>Enable SRTP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0: Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1: Enable but No Forced</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2: Enable and Forced</td>
</tr>
</tbody>
</table>

NEW HTTP API

P15419

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

SET:
<http|https>://<servername>/goform/config?cmd=set& P15419=<0-20>

P15418

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

SET:
<http|https>://<servername>/goform/config?cmd=set& P15418=<0-10>

P443

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

SET:
<http|https>://<servername>/goform/config?cmd=set& P443=<0-20>

For details, please refer to the latest version of 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.

ASSIGN SCHEDULE TO DOOR BELL

- Web Configuration

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

- Functionality

This feature allows user to configure a schedule to the Doorbell Button. Once configured, the doorbell button will turn ON or OFF based on configured schedule. For example, some users do not want the doorbell to work during the night.
MAXIMUM NUMBER OF DIGIT DIALED

- **Web Configuration**

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

![Web Configuration Screenshot](image)

- **Functionality**

  This feature will allow user to configure the maximum digits allowed to dial in the keypad. Once the configured condition satisfied, the device will send out the digits and call automatically without pressing #. This is similar to a very simple dial plan but just number of digits managed.
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

<table>
<thead>
<tr>
<th>HW version</th>
<th>FW</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDS3710 HW1.3A</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.7A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>
ENHANCEMENT

- Optimized ringing timeout and set to within 5 seconds.
- Optimized 4th MJPEG stream, added 1st, 2nd and 3rd 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 2nd 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 3rd 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`

  **JPEG Snapshot:**
  `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 Media Player** to retrieve H.264 video stream with better quality:
    `rtsp://admin:password@IP_GDS3710:Port/X`
    where X= 0, 4, 8 corresponded to 1st, 2nd and 3rd video stream where 2nd 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 3rd party Service Provider or Cloud Solution to monitor the operation status of the GDS3710 by using related SIP Calls.
NEW P-VALUE

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Values</th>
<th>Default Value</th>
<th>Comments</th>
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<tbody>
<tr>
<td>P15409</td>
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<td>1: Enable</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>P15408</td>
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<td>1</td>
<td>Non-scheduled Access Alarm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Alarm Action Profile</td>
</tr>
<tr>
<td>P15407</td>
<td>0: Disable</td>
<td>1: Enable</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>P2392</td>
<td>0: Disable</td>
<td>1: RTCP</td>
<td>2: RTCP-XR</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

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 →

- 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:

- **Functionality**

Allow 3rd 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

**JPEG Snapshot:**
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
  where X= 0, 4, 8 corresponded to 1st, 2nd and 3rd video stream where 2nd 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)

2. Schedule Open Door (Repeated Action)

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:

  ![Web Configuration Screenshot]

- **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 P-value**

<table>
<thead>
<tr>
<th>P-Value</th>
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<th>Default Value</th>
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</tr>
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<tr>
<td>P15408</td>
<td>1~10</td>
<td>1</td>
<td>Non-scheduled Access</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Alarm Action Profile</td>
</tr>
</tbody>
</table>
SEND SNAPSHOT VIA EMAIL WHEN DOORBELL PRESSED

- **Web Configuration**

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

- **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**

<table>
<thead>
<tr>
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<th>Values</th>
<th>Default Value</th>
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</thead>
<tbody>
<tr>
<td>P15409</td>
<td>0: Disable</td>
<td>1: Enable</td>
<td>0</td>
</tr>
</tbody>
</table>
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 3rd party Service Provider or Cloud Solution to monitor the operation status of the GDS3710 by using related SIP Calls.

- **New P-value**

<table>
<thead>
<tr>
<th>P-Value</th>
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<th>Default Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2392</td>
<td>0, 1, 2</td>
<td>0: Disabled</td>
<td>Enable RTCP, RTCP-XR. Default is Disabled.</td>
</tr>
</tbody>
</table>
<pre><code>         |        | 1: RTCP       |          |
         |        | 2: RTCP-XR    |          |
</code></pre>
IMPROVED EVENT LOG UI LAYOUT

- **Web Configuration**

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

![Event Log UI Layout](image)

- **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 tobrick 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

<table>
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<td>GDS3710 HW1.3A</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.7A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>
**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 2nd 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:**

  3rd 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**

  3rd 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

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Values</th>
<th>Default Value</th>
<th>Comments</th>
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<td>P15424</td>
<td>0- Disable 1- Enable</td>
<td>0</td>
<td>Enable HTTP API Remote Open Door</td>
</tr>
<tr>
<td>P15428</td>
<td>5~300</td>
<td>30</td>
<td>Open Door Valid Time</td>
</tr>
<tr>
<td>P15417</td>
<td>1: HTTP 2: HTTPS</td>
<td>1</td>
<td>Via Type</td>
</tr>
<tr>
<td>P15416</td>
<td>String</td>
<td>{“mac”:”${MAC}”, “content”:”${WARNING_MSG}”}</td>
<td>URL Template</td>
</tr>
</tbody>
</table>
### NEW HTTP API

**Enable HTTP API Remote Open Door**: 
- Checked

**Open Door Valid Time**: 
- 5

**Enable Event Notification**
- **Via Type**: HTTP

**HTTP/HTTPS Server**
- Field not specified

**HTTP/HTTPS Server Username**
- Field not specified

**HTTP/HTTPS Server Password**
- Field not specified

**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:

![Door System Settings](image)

• Functionality

Allow 3rd 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-DEFINE EVENT NOTIFICATION MESSAGE

- Web Configuration

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

- Functionality

This feature allows the 3rd 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

<table>
<thead>
<tr>
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<th>Default Value</th>
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<td>2- Disable</td>
<td>0</td>
<td>Enable HTTP API</td>
</tr>
<tr>
<td></td>
<td>3- Enable</td>
<td></td>
<td>Remote Open Door</td>
</tr>
<tr>
<td>P15428</td>
<td>5~300</td>
<td>30 (In Seconds)</td>
<td>Open Door Valid Time</td>
</tr>
<tr>
<td>P15417</td>
<td>1: HTTP; 2: HTTPS</td>
<td>1</td>
<td>Via Type</td>
</tr>
<tr>
<td>P15416</td>
<td>String</td>
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<td>URL Template</td>
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</table>
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.

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<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.7A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

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.

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 2nd 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” deselected, 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

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Values</th>
<th>Default Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8463</td>
<td>4- Disable</td>
<td>0</td>
<td>Validate Server Certificates</td>
</tr>
<tr>
<td></td>
<td>5- Enable</td>
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<td></td>
</tr>
<tr>
<td>P8433-P8438</td>
<td>&lt;string&gt;</td>
<td>0</td>
<td>Trusted CA Certificates Files</td>
</tr>
<tr>
<td></td>
<td>Max.length=4096</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NEW HTTP API

<table>
<thead>
<tr>
<th>&lt;parameter&gt; = &lt;value&gt;</th>
<th>Page</th>
<th>Values</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8463 = &lt;int&gt;</td>
<td>Upgrade</td>
<td>0,1</td>
<td>Validate Server Certificates</td>
</tr>
<tr>
<td>type = &lt;string&gt;</td>
<td>Trusted CA Certificates</td>
<td>trustedca</td>
<td>Get Trusted CA Certificates info</td>
</tr>
<tr>
<td>P8433-P8438 = &lt;string&gt;</td>
<td>Trusted CA Certificates</td>
<td>string</td>
<td>Trusted CA Certificates Files</td>
</tr>
</tbody>
</table>

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:
• 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:

![Web configuration interface]

• 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”, 2nd 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

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15427</td>
<td>Configure Multi-Channel Call Mode</td>
<td>Value = 0, Disable Value = 1, Enable</td>
<td>0, Disable</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>HW version</th>
<th>FW</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDS3710 HW1.3A</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.7A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

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 2nd 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/HTTS User Name
- P6769 Firmware HTTP/HTTS 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/HTTS User Name
- P6777  Config HTTP/HTTS 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/HTTS User Name
- P1361 HTTP/HTTS Password

**NEW HTTP API**

<table>
<thead>
<tr>
<th>cmd=&lt;string&gt;</th>
<th>call</th>
<th>http sip call cmd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call_type=&lt;int&gt;</td>
<td>0</td>
<td>1&gt;</td>
</tr>
<tr>
<td>Call_num=&lt;string&gt;</td>
<td></td>
<td>Call num or IP</td>
</tr>
<tr>
<td>P15425=&lt;int&gt;</td>
<td>0</td>
<td>1&gt;</td>
</tr>
<tr>
<td>P14121=&lt;int&gt;</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>P6767=&lt;int&gt;</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>P192=&lt;string&gt;</td>
<td></td>
<td>Firmware Server Path</td>
</tr>
<tr>
<td>P6768=&lt;string&gt;</td>
<td></td>
<td>Firmware HTTP/HTTS User Name</td>
</tr>
<tr>
<td>P6769=&lt;string&gt;</td>
<td></td>
<td>Firmware HTTP/HTTS Password</td>
</tr>
<tr>
<td>P232=&lt;string&gt;</td>
<td></td>
<td>Firmware Upgrade File Prefix</td>
</tr>
<tr>
<td>P233=&lt;string&gt;</td>
<td></td>
<td>Firmware Upgrade File Postfix</td>
</tr>
<tr>
<td>P193=&lt;int&gt;</td>
<td>60 - 525600</td>
<td>Automatic Upgrade Interval (Minutes)</td>
</tr>
<tr>
<td>P212=&lt;int&gt;</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>P237=&lt;string&gt;</td>
<td></td>
<td>Config Server Path</td>
</tr>
<tr>
<td>P6776=&lt;string&gt;</td>
<td></td>
<td>Config HTTP/HTTS User Name</td>
</tr>
<tr>
<td>P6777=&lt;string&gt;</td>
<td></td>
<td>Config HTTP/HTTS Password</td>
</tr>
<tr>
<td>P234=&lt;string&gt;</td>
<td></td>
<td>Config Upgrade File Prefix</td>
</tr>
<tr>
<td>P235=&lt;string&gt;</td>
<td></td>
<td>Config Upgrade File Postfix</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Central Mode</th>
</tr>
</thead>
</table>

- **Functionality**

This feature only works with GDSManager. If enabled, Card Info, 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**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15301</td>
<td>&lt;New Pvalue&gt;</td>
<td>0 / 1 (0:Disable 1:Enable)</td>
<td>0</td>
</tr>
</tbody>
</table>

BROADSOFT MODE

- **Web Configuration**

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

- **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**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P424</td>
<td>Configuration</td>
<td>Value = 100; Standard</td>
<td>100, Standard</td>
</tr>
<tr>
<td></td>
<td>Special Features</td>
<td>Value = 102; Broadsoft</td>
<td></td>
</tr>
</tbody>
</table>

- **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.

- **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

<table>
<thead>
<tr>
<th>HW version</th>
<th>FW</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDS3710 HW1.3A</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

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 3rd 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 1st call established.
- The 2nd 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**

  ![Central Mode](image)

- **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**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15301</td>
<td>&lt;New Pvalue&gt;</td>
<td>0 / 1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Central Mode</td>
<td>(0:Disable 1:Enable)</td>
<td></td>
</tr>
</tbody>
</table>

  **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.

  ![Enable two-way SIP Calling](image)

- **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**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8001</td>
<td>Enable two-way SIP Calling</td>
<td>Value = 0; Disabled</td>
<td>1: Enabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value = 1; Enabled</td>
<td></td>
</tr>
</tbody>
</table>

**CAPTURE IMAGE WHEN DOOR BELL PRESSED**

• **Web Configuration**

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

![Door System Settings](image)

- **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**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15420</td>
<td>Capture Image on Pressing Doorbell</td>
<td>Value = 0; Disabled</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value = 1; Enabled</td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15421</td>
<td>Disable Keypad</td>
<td>Value = 0; Disabled</td>
<td>1: Enabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value = 1; Enabled</td>
<td></td>
</tr>
</tbody>
</table>

**ENABLE REMOTE UNLOCK TO ON HOOK**

- **Web Configuration**

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

- **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

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15422</td>
<td>Enable Remote Unlock to On Hook</td>
<td>Value = 0; Disabled</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value = 1; Enabled</td>
<td></td>
</tr>
</tbody>
</table>

**DISABLE AUTO ANSWER**

- **Web Configuration**

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

- **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

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P14580</td>
<td>Disable the Auto Answer of GDS</td>
<td>Value = 0; Disabled</td>
<td>1: Enabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value = 1; Enabled</td>
<td></td>
</tr>
</tbody>
</table>

**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 allows the doorbell button to be pressed to hang 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

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P14582</td>
<td>Enable the Doorbell Button to Handup Call</td>
<td>Value = 0; Disabled</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value = 1; Enabled</td>
<td></td>
</tr>
</tbody>
</table>

**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) 5
• **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**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15423</td>
<td>Card Issuing Mode</td>
<td>Value Range (in Minutes):</td>
<td>5 Minutes</td>
</tr>
<tr>
<td></td>
<td>Effective Timer</td>
<td>1 ~ 1440</td>
<td></td>
</tr>
</tbody>
</table>

**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
- Enable Background Light

• **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**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P14800</td>
<td>Enable Key Blue Light</td>
<td>Value = 0; Disabled; Value = 1; Enabled</td>
<td>1: Enabled</td>
</tr>
<tr>
<td>P14801</td>
<td>Enable Background Light</td>
<td>Value = 0; Disabled; Value = 1; Enabled</td>
<td>1: Enabled</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Enable Blue Light</th>
<th>Start Time</th>
<th>End Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>17:00:00</td>
<td>23:00:00</td>
</tr>
</tbody>
</table>

- **Functionality**

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

- **New Pvalue**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range (Pure Digital String)</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P14560</td>
<td>Doorbell Blue Light Start Time</td>
<td>MAX length is 6. Example: 125900 -&gt; 12:59:00</td>
<td>000000</td>
</tr>
<tr>
<td>P14561</td>
<td>Doorbell Blue Light End Time</td>
<td>MAX length is 6. Example: 125900 -&gt; 12:59:00</td>
<td>000000</td>
</tr>
</tbody>
</table>

ENABLE LOG REPORT

- **Web Configuration**

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

  **Log Manager**

<table>
<thead>
<tr>
<th>Enable Log Reporting</th>
<th>HTTP Server URL</th>
<th>HTTP Server Username</th>
<th>HTTP Server Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- **Functionality**

  This feature allows users to configure the Log Reporting feature via HTTP Server. The live log information will be sent to pre-configured HTTP Server for storage, diagnosis, and processing. The HTTP server can generate all kinds of related reports based on the logs received. This is good for 3rd party redevelopment application usage.

- **New Pvalue**

<table>
<thead>
<tr>
<th>Pvalue</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15410</td>
<td>Enable Log Reporting</td>
<td>Value = 0; Disabled, 1; Enabled</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>e.g.: <a href="http://192.100.10.10:80/">http://192.100.10.10:80/</a></td>
<td>Max. Length=256</td>
</tr>
<tr>
<td>P15414</td>
<td>HTTP Server Username</td>
<td>String, Max. Length=128</td>
<td>String</td>
</tr>
<tr>
<td>P15415</td>
<td>HTTP Server Password</td>
<td>String, Max. Length=128</td>
<td>String</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>HW version</th>
<th>FW</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDS3710 HW1.2A</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.3A</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.3B</td>
<td>YES</td>
<td>Only support HTTP upgrade image</td>
</tr>
<tr>
<td>GDS3710 HW1.5A</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>GDS3710 HW1.6A</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

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 3rd 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 2nd 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
- Expended 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.