GDS3705 Firmware Release Note

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FIRMWARE VERSION 1.0.0.20

PRODUCT NAME

DATE

SUMMARY OF UPDATE

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

BUG FIX

KNOWN ISSUES

NEW P-VALUE

NEW HTTP API
FIRMWARE VERSION 1.0.1.6

PRODUCT NAME
GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B)

DATE
12/28/2019

SUMMARY OF UPDATE
This is a major feature update for GDS3705 as well as bug fixes, mainly for ITSP customers.

Factory Reset is recommended if upgrading from very old firmware, or experiencing abnormal webUI or missing parameters in the GUI. Please backup the data and configuration before factory reset, then import back after reset.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

<table>
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<tr>
<th>HW Version</th>
<th>FW</th>
<th>Comments</th>
</tr>
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<td></td>
</tr>
<tr>
<td>GDS3705 HW1.2A</td>
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<td></td>
</tr>
<tr>
<td>GDS3705 HW1.3A</td>
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<td></td>
</tr>
<tr>
<td>GDS3705 HW1.4A</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
<tr>
<td>GDS3705 HW1.4B</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
</tbody>
</table>

BUG FIX
• Fixed abnormal open door sometimes alarm may not trigger issue
• Fixed virtual number peering call not working between GDS and SIP phone
• Fixed device cannot be re-provisioned when CFG file includes firmware upgrade and provisioning parameters
• Fixed rejecting call did not send 486 busy here (3CX IOT)
• Fixed 200 OK SDP out of order (3CX IOT)
• Fixed not recognizing DTMF input (3CX IOT)
ENHANCEMENT

- Added support for failover mechanism based on DNS SRV
- Added siren alarming function when door opened abnormally (special wiring required)
- Added including Holidays at Keep Door Open schedule
- Added reset/restore factory default password via special keypad combination operations

KNOWN ISSUES

- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Silent Alarm to SIP phone still playing siren at phone side not stopping even after pressing phone’s keypad which supposedly should stop the siren audio at SIP phone side.
NEW HTTP API

<table>
<thead>
<tr>
<th>IP15508: (value: 0/1)</th>
<th>Alarm_Settings.Alarm_Events_Config.Digit_Input.Digit_Input_1_Abnormal_Door_Control_Options</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GET: <a href="http://ip:port/goform/config?cmd=get&amp;type=event">http://ip:port/goform/config?cmd=get&amp;type=event</a></td>
</tr>
<tr>
<td></td>
<td>SET: <a href="http://ip:port/goform/config?cmd=set&amp;P15508=">http://ip:port/goform/config?cmd=set&amp;P15508=</a>&lt;value&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IP15509: (value: 0/1)</th>
<th>Alarm_Settings.Alarm_Events_Config.Digit_Input.Digit_Input_2_Abnormal_Door_Control_Options</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GET: <a href="http://ip:port/goform/config?cmd=get&amp;type=event">http://ip:port/goform/config?cmd=get&amp;type=event</a></td>
</tr>
<tr>
<td></td>
<td>SET: <a href="http://ip:port/goform/config?cmd=set&amp;P15509=">http://ip:port/goform/config?cmd=set&amp;P15509=</a>&lt;value&gt;</td>
</tr>
</tbody>
</table>

NEW P-VALUE

- P15508: (value: 0/1)
  Alarm_Settings.Alarm_Events_Config.Digit_Input.Digit_Input_1_Abnormal_Door_Control_Options

- P15509: (value: 0/1)
  Alarm_Settings.Alarm_Events_Config.Digit_Input.Digit_Input_2_Abnormal_Door_Control_Options

MODIFIED P-VALUE

N/A
NEW FEATURES OVERVIEW
This section lists major new features or improvement and describes how to use them from the user’s point of view.

SUPPORT FAILOVER MECHANISM ON DNS SRV

- **Web Configuration**

This option can be found under device web UI → Account → Account X (X=1, 2, 3, and 4):

![GDS3705 Account Configuration](image)

- **Functionality**

This is a major feature enhancement for Service Provider, via DNS SRV (mainly for BroadSoft certified Soft Switch for major Internet Telephony Service Providers). Service providers can use this feature to provider smooth service transition backup in case service down.
In the device web UI → Account X (X=1, 2, 3, and 4) → SIP Advanced Settings → Special Feature:
There is a new feature specially designed for Telefonica Spain to match the service provided by
Telefonica to their customers. Just need to enable this feature via either WebUI or Provisioning.
SIREN ALARMING WHEN DOOR OPENED ABNORMALLY (SPECIAL WIRING REQUIRED)

- **Web Configuration**

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

- **Functionality**

This is a major security enhancement for GDS37xx (GDS3705/3710) when device be tampered to open the door abnormally.

When this feature enabled (special wiring required, see below wiring diagram), abnormal open door will be detected by DI port (Alarm_In2 or IN2 in below diagram showed) if wired correctly (connecting the COMx port to DIx port) therefore trigger **siren alarm**. Once abnormal open door alarm triggered, the **siren** will sound non-stop, until manually override by related person.

There are several ways to stop and disable the alarm:
1) Power cycle the GDS37xx
2) Pick up the Alarm Phone Call (if configured)
3) Open Door using PIN (either public PIN or private PIN)

Once alarm triggered, the GDS3705 will play **siren** sound, send email to administrator (if configured SMTP); call the configured alarm SIP phone, send the alarm output (if connected). User will only be able to disable the siren using the 3 methods mentioned above.

Detailed action information please refer to GDS37xx User Manual, “Alarm Action Settings” configuration. Below are some diagrams showing the correct wiring to enable this new security enhancement feature.
NOTE:

- GDS3705 and GDS3710 sharing the SAME interface backboard. For convenience, the below diagrams are using GDS3710 as example.

- GDS3705 is exactly the same as GDS3710 in wiring for this feature. This means the interface backboard can be shared between GDS3705/3710. **Swap the device does NOT need to rewire.**
GDS3710 Connection & Wiring Diagrams — "Fail Secure" Electric Strike, 3rd Party Power Supply

Outdoors

Indoors

GDS3710 IF Board

"Fail Secure" Model Electric Strike

Power Supply for Both GDS3710 and Electric Strike: DC 12V 2A

NOTE:
- The input voltage of Electric Strike must be DC 12V in this case.
- The total current of power must refer to the max. current of electric strike to sum up.
- e.g.: striker need 500mA, the total should be 1 + 0.5 = 1.5A minimum for the 3rd party DC Power Supply.

GDS3710 Connection & Wiring Diagrams — "Fail Secure" Electric Strike, 3rd Party Power Supply

Outdoors

Indoors

GDS3710 IF Board

"Fail Secure" Model Electric Strike

Power Supply for Both GDS3710 and Electric Strike: DC 12V 2A

Door Lock Switch

NOTE:
- The input voltage of Electric Strike must be DC 12V in this case.
- The total current of power must refer to the max. current of electric strike to sum up.
- e.g.: striker need 500mA, the total should be 1 + 0.5 = 1.5A minimum for the 3rd party DC Power Supply.
If 3rd party door sensor installed, customer can wire the door sensor signal directly into the DI port (DI2 in below example) to trigger the alarm if the door opened abnormal. See below diagram:

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

- GDS3705 User Manual:

- HOW-TO Guide
  [http://www.grandstream.com/support/resources/?title=GDS3705](http://www.grandstream.com/support/resources/?title=GDS3705)
SUPPORT HOLIDAYS IN KEEP DOOR OPEN SCHEDULE

- **Web Configuration**

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

![Web Configuration Screenshot](image)

- **Functionality**

This feature is implemented based on field customer feedback either.

When configure Keep Door Open schedule, customers now can also specify which Holiday Schedule to be included into the Keep Door Open schedule, therefore make the GDS37xx more user friendly in such application scene configuration.
RESET FACTORY PASSWORD VIA SPECIAL KEY COMBINATION OPERATION

- **Functionality**

This is a new enhancement feature requested by ITSP service providers as well as lots of system integrators from Forum. This feature allows customers to reset the device administrator password to factory default via keypad operation through some special key combination.

When performing this operation, ONLY password will be reset back to factory default. All other setting or parameters will NOT be changed and will remain the same. This feature is specially designed for field engineers or technicians when dispatched in field but for some reason the administrator password is not available therefore not able to access the GDS37xx device to do the related maintenance.

Here are the steps to do such password reset operation via keypad:

**Encoding Rules:**

- Alphabet A – Z mapping to digit 1 – 26 respectively, no difference in lower or up case.

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |

**NOTE:**

- Suggest decoding the MAC and Password and write on paper before doing the reset operation.

**Prerequisite condition:**

1) MAC address of the GDS37xx (check the sticker at back of the device)
2) Default password of the GDS37xx (check the sticker at the back of the device)
3) Correct decoding the last 6 MAC address into digits (refer to encoding rule)
4) Correct decoding the default password into digits (refer to encoding rule)
5) Finish keypad input within 1 minute
Operation Steps:

1) When device is idle, input the special keypad combination with format: ***last_6_MAC**#
2) Device will reach restore mode after correct digits in Step 1) entered. The backlight of keypad will flash quickly to tell operator the device is now in password reset/restore mode.
3) Operator will enter the correct decoded default password ending with # with format: default_password_code# via the keypad within 60 seconds.
4) If wrong code combination entered, the GDS37xx will beep with error sound (three short beeps) then exit the password reset mode, and the backlight will stop flashing.
5) If the correct default password decode entered within 60 seconds, GDS37xx will play a long beep sound (advising correct operation), the device will reboot itself automatically.
6) If keypad entry time out (not finish the input within 60 seconds), the device will exit this password reset mode automatically and stop the backlight flashing.

After successful password reset, operator will then be able to log into the GDS37xx webUI with default password, all the configuration inside the device will be the same and will NOT be changed.

For example:

Decoding the string into digits and write to paper before doing the operation:

- **Device with last 6 MAC address:** 33DDDD
- **Decoding the last 6 MAC to digits would be:** 334444
- **Default password is:** xwpzx6AA
- **Decoding the default password to digits would be:** 2423162426611

1) Enter ***334444**# via keypad, get into the password reset mode, the keypad backlight will flash quickly.
2) Within 60 seconds, enter 2423162426611#, the device will play one long beep then reboot itself.
3) Wait the device finishing boot up, log in the webUI using the default password, xwpzx6AA
FIRMWARE VERSION 1.0.1.3

PRODUCT NAME
GDS3705 *(HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B)*

DATE
07/30/2019

SUMMARY OF UPDATE
This is a major feature update for GDS3705 as well as bug fixes, mainly for the ITSP features.

Factory Reset is recommended if upgrading from very old firmware, or experiencing abnormal webUI or missing parameters in the GUI. Please backup the data and configuration before factory reset, then import back after reset.

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</tr>
<tr>
<td>GDS3705 HW1.4B</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
</tbody>
</table>

BUG FIX
- Fixed audio setting customize ringtone has prompt in Chinese.
- Fixed reboot required to take effect when enable/disable DHCP Option 42.
ENHANCEMENT

- Added ITSP support: re-registration before expiration.
- Added “Only accept incoming SIP call from proxy server” to enhance security and prevent ghost calls.
- Added support for DHCP Option 42.
- Added support for Voice Frame Per TX at audio settings.
- Added support of separated webUI credentials for GDSManager.
- Added ability to enable multiple audio codecs simultaneously and specify priority of codecs.
- Added support for failover mechanism based on DNS SRV.
- Added support for schedule firmware upgrade/provisioning.
- Added support for G.729 audio codec.

KNOWN ISSUES

- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Silent Alarm to SIP phone still playing siren at phone side not stopping after pressing phone’s keypad.
## NEW HTTP API

<table>
<thead>
<tr>
<th>Models</th>
<th>GET Request</th>
<th>SET Request</th>
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<td>P37/P486/P586/P686</td>
<td>[http</td>
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<td>https]://&lt;servername&gt;/goform/config?cmd=get&amp;type=sip</td>
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<td>P57/P58/P59/P60</td>
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NEW P-VALUE

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<td>&lt;parameter&gt; = &lt;value&gt;</td>
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<td>P486=int</td>
<td>P586=int</td>
<td>P686=int</td>
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<td>P2630</td>
<td>GDS3710/GDS3705</td>
<td>&lt;integer&gt;</td>
<td>Re-register Before Expiration</td>
</tr>
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</table>

● P144: System Settings/Data&Time/ Allow DHCP Option 42 to override NTP server
● P8458: Maintenance/Upgrade/Randomized Automatic Upgrade
● P285: Maintenance/Upgrade/Hour of the Day (0-23)Start
● P8459: Maintenance/Upgrade/ Hour of the Day (0-23)end
● P286: Maintenance/Upgrade/ Day of the Week (0-6)

MODIFIED P-VALUE

N/A
NEW FEATURES OVERVIEW
This section lists major new features and describes how to use them from the user’s point of view.

Advanced SIP Settings for ITSPs: Re-register & Accept incoming calls from Proxy Only

• Web Configuration

New feature added in SIP Advanced Settings allows server providers (ITSP) to provide specified service to the customers.

This option can be found under device web UI: Account → Account X (X = 1, 2, 3 and 4):

- Functionality

This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can configure the device to the customers.
DHCP Option 42

- Web Configuration

This feature is added to allow service providers (ITSPs) to configure system time based on DHCP server configuration.

The option of this webUI can be found: System Settings → Date & Time:

- Functionality

This feature is added to allow service provider customer to control system time via DHCP server.

**NOTE:**

- This feature is designed for Service Provider, or Service Technician or Installers.
- End users without necessary knowledge are strongly discouraged to use it, avoiding incorrect system time caused by misconfiguration.
DNS SRV Support

- **Web Configuration**

This feature is added to allow service provider customers (ITSP) provide backup service in case there is an interruption. This is more like IP Phone feature from ITSPs.

The option of this webUI can be found: Account → Account X (X = 1, 2, 3 and 4)

- **Functionality**

This is an enhancement for ITSP customers to support network backup service.
Multiple Audio Codecs and Voice Frame Per TX Support

- **Web Configuration**

The option can be found under device webUI: Account → Account X  (X = 1, 2, 3 and 4):

![Web Configuration Screenshot]

- **Functionality**

This is an enhancement for an existing features after feedbacks from customers and installers, especially ITSP customers.

Added “Voice Frame Per TX” to allow ISTP customers configure the VoIP more efficiently.

Added G.729 audio codec support as well as multiple audio codecs simultaneously with specified priority.
Set Schedule for Upgrade/Provisioning

- **Web Configuration**

The option can be found under device webUI: Maintenance → Upgrade:

- **Functionality**

This is an enhancement for ITSP customers so scheduled or preconfigured firmware upgrade or configuration provisioning can be provided to the customers.
Separate Credentials for GDSManager

- **Web Configuration**

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

![Access Settings](image)

- **Functionality**

This feature is implemented based on field customer feedback. Now separate credentials can be configured and used in GDSManager to communicate with GDS3705, instead of using GDS3705 webUI administrator’s credentials. System administrators keep the admin password and use another password for GDSManager where usually operated by HR or other company staffs.
Make sure the correspondent password is configured in GDSManager like below:

**NOTE:**

- The password must match the password configured in the GDS3705 at above screenshot.
- This feature requires both GDS37xx and GDSManager to make it work.
- GDS37xx has to be configured in "Central Mode"
- GDSManager Version 1.0.1.1 or above is required to support this feature.
FIRMWARE VERSION 1.0.0.41

PRODUCT NAME
GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B)

DATE
06/06/2019

SUMMARY OF UPDATE
This is a major feature update for GDS3705 as well as bug fixes. Two doors can be controlled starting from this version.

Factory Reset is recommended if upgrading from very old firmware, or experiencing abnormal webUI or missing parameters in the GUI. Please backup the configuration and data before factory reset, then import back after reset.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

<table>
<thead>
<tr>
<th>HW Version</th>
<th>FW</th>
<th>Comments</th>
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<td>GDS3705 HW1.4B</td>
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<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
</tbody>
</table>

BUG FIX
- Fixed only the 1st doorbell number can answer the call normally in Door Bell Call Mode.
- Fixed cannot answer the call after uploading an empty custom doorbell ringtone.
- Fixed GDSManager cannot open door2 via the remote PIN.
- Fixed Digit Input will not open Door1 when disable ALMOUT1 open door feature.
- Fixed alarm not activated even wrong private PIN inputted many times.
- Fixed no error prompt when saving “Door2 Unlock Holding Times(s)” to “0”.
- Fixed API cannot open Door2 remotely.
- Fixed cannot end the call by pressing doorbell button if the doorbell schedule not include current time
- Fixed Silent Alarm triggered the GDS3705 side has audio not muting on phone side.
- Fixed Digit Input 1 can only control open door1 when ALMOUT1 set as Open Door.
- Fixed wrong email theme used when testing alarm action.
- Fixed email failed to send out when non-schedule access alarm triggered.
- Fixed anyone knowing the DTMF PIN can open the door remotely if caller is GDS37xx, added the security limitation that only callees in the whitelist can open door remotely.
- Fixed if Hostage Alarm triggered the GDS3705 not sending audio but still sending alarm siren when far side phone pressed keypad to stop the siren.
- Fixed “Keep Door Open” by configured Schedule fail to work when Daylight Saving Time kicked in.
- Fixed pressing doorbell calling the 2nd callee in the list will not ring if the first number user rejected the open door request call (which supposedly should not happen like receptionist should not reject call).
- Fixed and forbidden user to upload custom doorbell ringtone with empty ring.bin audio.
- Fixed issue with decoding DNS (mDNS).
- Fixed Account Active not taking effect on Account1
- Fixed event log the SIP account number displayed incorrectly.
- Fixed no error prompt when saving SIP and RTP port with same number.
- Fixed clicking webUI to make doorbell call only the 1st number will be called.
- Fixed new uploaded certificate will not overwrite the previous certificate file.

**ENHANCEMENT**

- Synchronized Digit Input Status with GDS3710.
- Enhanced syslog messages and removed unnecessary details from the logs.
- Added sending System Health Alerts via email.
- Removed “SIP Proxy Compatibility Mode” as GDS3705 not support video.
- Added feature to Enable/Disable Web Access.
- Added feature option to configure “No Key Entry Timeout”
- Added feature to use Digits Only as Private PIN.
- Added option to set “schedule” for “Local PIN to Open Door”.
- Added ability to configure “Keep Door Open” action from “Device Config” of GDSManager (Version: 1.0.1.1) and synchronize with GDS37xx, or vice versa from GDS37xx to GDSManager.
- Added option to set DTMF Payload value.
- Added RTCP/TRCP-XR support.
- Added reuse ALMOUT1 for Open Door function and interface.
- Added Digit Output support Normal Open or Normal Close setting.
- Added “Boot Version” displayed in “System Info” of “Status” UI page.

**KNOWN ISSUES**

- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Silent Alarm to SIP phone still playing siren at phone side not stopping after pressing phone’s keypad.
NEW HTTP API

| P2392/P2492/P2592/P2692/P79/P496/P596/P696 | GET:[http|https]://<servername>/goform/config?cmd=get&type=sip  
SET:[http|https]://<servername>/goform/config?cmd=set&Pname=<value> |
|---------------------------------------------|-----------------------------------------------------------------|
| P15473                                      | GET:[http|https]://<servername>/goform/config?cmd=get&type=access  
SET:[http|https]://<servername>/goform/config?cmd=set&Pname=<value> |
| P15436/P15433/P15450/P15460/P15461/P15462/P15465/P15466/P15467/P15468/P15470/P15498 | GET:[http|https]://<servername>/goform/config?cmd=get&type=door  
SET:[http|https]://<servername>/goform/config?cmd=set&Pname=<value> |
| P15451/P15452                              | GET:[http|https]://<servername>/goform/config?cmd=get&type=event  
SET:[http|https]://<servername>/goform/config?cmd=set&Pname=<value> |
| P15455/P15456/P15457/P15458/P15459/P15472   | GET:[http|https]://<servername>/goform/config?cmd=get&type=sch_open_door  
SET:[http|https]://<servername>/goform/config?cmd=set&Pname=<value> |
| P15490/P15491/P15492/P15493/P15494/P15495/P15496 | GET:[http|https]://<servername>/goform/config?cmd=get&type=sys_health_alert  
SET:[http|https]://<servername>/goform/config?cmd=set&Pname=<value> |
| P15499                                     | GET:[http|https]://<servername>/goform/config?cmd=get&type=audio  
SET:[http|https]://<servername>/goform/config?cmd=set&Pname=<value> |
### NEW P-VALUE

<table>
<thead>
<tr>
<th>Account 1</th>
<th>Account 2</th>
<th>Account 3</th>
<th>Account 4</th>
<th>Model Supported</th>
<th>Values</th>
<th>Description</th>
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<td>(&lt;\text{parameter}&gt; = \langle\text{value}\rangle)</td>
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<td>P596=&lt;int&gt;</td>
<td>P696=&lt;int&gt;</td>
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</tr>
<tr>
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<td>P2592</td>
<td>P2692</td>
<td>GDS3710/GDS3705</td>
<td>(0</td>
<td>1</td>
</tr>
</tbody>
</table>

P15473 - System Settings/Access Settings/Disable Web Access  
P15436 - Door System Settings/Basic Settings/No Key Input Timeout(s)  
P15433 - Door System Settings/Basic Settings/Disable Keypad SIP Number Dialing  
P15450 - Door System Settings/Basic Settings/ALMOUT1 Feature  
P15451 - Alarm Settings/Alarm Events Config/Digit Input/Digit Input 1 Open Door Option  
P15452 - Alarm Settings/Alarm Events Config/Digit Input/Digit Input 2 Open Door Option  
P15455 - Door System Settings/Keep Door Open/Keep Door2 Open  
P15456 - Door System Settings/Keep Door Open/Length (m) to Keep Door2 Open  
P15457 - Door System Settings/Keep Door Open/Door2 Schedule Start Time  
P15458 - Door System Settings/Keep Door Open/Door2 Schedule End Time  
P15459 - Door System Settings/Keep Door Open/Door2 Schedule  
P15472 - Door System Settings/Keep Door Open/Emergency PIN to Disable Keep Door2 Open  
P15460 - Door System Settings/Basic Settings/Remote PIN to Open Door 2  
P15461 - Door System Settings/Basic Settings/Unified PIN Open Door Options  
P15462 - Door System Settings/Basic Settings/Guest PIN Open Door Options  
P15465 - Door System Settings/Basic Settings/Door 2 Delay before Unlock(s)  
P15466 - Door System Settings/Basic Settings/Door 2 Unlock Holding Time(s)  
P15467 - Door System Settings/Basic Settings/Control Options  
P15468 - Door System Settings/Basic Settings/Wiegand Control  
P15470 - Door System Settings/Basic Settings/DO1 Lock Status  
P15498 - Door System Settings/Basic Settings/Local PIN to Open Door Schedule  
P15490 - Maintenance/System Health Alert/Enable System Health Alert  
P15491 - Maintenance/System Health Alert/Delivery Method  
P15492 - Maintenance/System Health Alert/Interval Time  
P15493 - Maintenance/System Health Alert/SIP Registration Status  
P15494 - Maintenance/System Health Alert/ System Running Status  
P15495 - Maintenance/System Health Alert/System Temperature  
P15496 - Maintenance/System Health Alert/Email Title  
P15499 - Audio Settings/Enable Custom Doorbell Ringtone

### MODIFIED P-VALUE

P14835 - bell ring volume, default 5 -> 4
NEW FEATURES OVERVIEW

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

SYSTEM HEALTH ALERT

- Web Configuration

New feature allows users to configure the device to send email report about system health information, like: Registration Status, Running Status, and Temperature. Email title can be written by users and also the sending frequency can be selected as either real-time or in period.

This option can be found under device web UI: Maintenance → System Health Alert:

- Functionality

This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can configure the device to send out system health report to monitor the system health of the device to improve the service.
ENABLE/DISABLE WEB ACCESS

- **Web Configuration**

This feature is added to allow service provider to disable web access to enhance the security of the device.

The option of this webUI can be found: System Settings → Access Settings:

![GDS3705 Access Settings](image)

- **Functionality**

This feature is added to allow service provider customer to disable webUI for end users and improve the security of the device. By default is enabled.

**NOTE:**

- This feature is designed for Service Provider, or Service Technician or Installers.
- End users without necessary knowledge are strongly discouraged to use it, avoiding lost access to the UI of the device.
- Once the webUI access is disabled, the UI can only be enabled again by either Provisioning, SSH (if enabled) or Factory Reset. This feature is NOT suggested to use by end users.
- If both Web Access and SSH are disabled, users will LOSE access to the device. Only way to recover is re-provisioning the device, or HARD factory reset. Be very careful about disable BOTH, unless the device can be provisioned by configuration server.
NO KEY INPUT TIMEOUT

- Web Configuration

This feature is added to allow GDS3705 calling out automatically without pressing # key if stop input digits after the configured timer. This is more like IP Phone feature.

The option of this webUI can be found: Door System Settings → Basic Settings:

- Functionality

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

This setting allows user to configure the timeout (in second) when no key input then sending out the SIP call automatically without press the “#” key. User can customize this parameter based on the environment this door phone installed.
For example in above screenshot:

“Maximum Number of Dialed Digits” is set to be “4”:
This is good for an installation allowing the door phone call ONLY the internal extensions to open door.
The setting is 4, means once user input 4 digit to the GDS3705, it will immediately dial out (saying the internal extension is using 4 digits)

“No Key Input Timeout(s)” is set to be “4” (second).
This means if user input the digits (less than 4 digit in above example), then wait and not more key strike, after 4 seconds (this can be customized by user or installer in the installation scene), the SIP call will automatically dial out without the “#” pressed.

Same as above screenshot example, if user input less than 4 digits, say input only 1 digit (“0” for example), then followed by the “#” key, then the GDS3705 door phone will immediately dial out “0” to establish the call. (“0” can be Operator or IVR depending on the IPPBX system configured)

This timer is in seconds, if no new digit input by user, the call will automatically sending out and no “#” required to end the input.

This is more a phone feature allowing users to simulate the traditional analogue phone dialing method.

Appropriate timer has to be configured to meet users’ calling habit.
OPEN DOOR VIA DIGITS ONLY PRIVATE PIN

- **Web Configuration**

The option can be found under device webUI: Door System Settings → Basic Settings:

![Web Configuration Interface](image)

- **Functionality**

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

This setting allows user to use DIGIT ONLY private PIN to open door, with the cost of NOT be able to making any SIP calls (except for doorbell button call).

User just input "**PrivatePIN#**" to open door, more like traditional door access system. The PIN format is shorter and different with SIP call enabled mode (which PIN format is "**VirtualNumber*PrivatePIN#**"). This makes the GDS3705 more like traditional access device.

**NOTE:**

Following settings are required to make this feature working:

- “Disable Keypad SIP Number Calling” should be checked to enable this feature
- “Local PIN Type” should choose “Private PIN”
- Dial keypad to make SIP call will NOT work when above selected.
- PrivatePIN must be **UNIQUE** among users, otherwise the door will still open but log will NOT tell who opened the door due to duplicated PIN and whoever user last matched in the database with the PrivatePIN will be shown in the log.
SET SCHEDULE FOR LOCAL PIN OPEN DOOR

- **Web Configuration**

The option can be found under device webUI: Door System Settings → Access Settings:

![Web Configuration Screenshot](image)

- **Functionality**

This is an enhancement for “Unified PIN” access feature after feedbacks from customers. Currently, using Private PIN or RFID card, user can configure schedule in the “Card Management” database to control the time door can be accessed. But there is no schedule in the “Unified PIN”. With this enhancement, users can now configure the “Schedule” to the “Unified PIN” so that the universal PIN also can be controlled by the Schedule, therefore door access can be controlled accordingly in the preconfigured time schedule.

The settings will appear only when “Unified PIN” selected in the “Local PIN Type”. User can click the “Edit Schedule” to get into schedule programming UI:

**NOTE:**

- The schedule can ONLY be edited when “Central Mode” disabled.
- If “Central Mode” enabled, the “Schedule” page is only viable and NOT editable. A green “Central Model” label will display in top right corner of the UI. (See below).
- When “Central Mode” enabled, the “Schedule” will be edited in GDSManager and synchronized by pulling from GDSManager down to GDS37xx device.
The “Schedule” UI page is only viewable and not editable with green label “Central Mode” displayed at top right corner:

When “Central Mode” NOT enabled, click the “Edit” on the “Schedule” UI will come out below screen to allow user to edit the schedule:
SYNCHRONIZE "KEEP DOOR OPEN" WITH GDSMANAGER

- **Web Configuration**

This feature is added to allow service provider to synchronize the schedule open door from GDSManager running at central office. GDSManager (Ver: 1.0.1.1 or later) required to work with this feature.

The webUI of GDS3701 can be found at: Door System Settings → Keep Door Open:
The webUI of GDSManager can be found at: Realtime Video → GDS: select related GDS37xx device and right click the selected GDS → Device Config:

![Image of GDSManager interface]

- **Functionality**

This feature is added to allow service provider or system administrator or installer to synchronize the schedule open door from GDSManager running at Window based computer from central office. GDSManager (Ver: 1.0.1.1 or later) required to work with this feature.

**NOTE:**

- This feature requires both GDS37xx and GDSManager to make it work.
- GDS37xx has to be configured in “Central Mode”
- GDSManager Version 1.0.1.1 or above is required to support this feature.
DTMF PAYLOAD AND RTCP/RTCP-XR

- **Web Configuration**

This option can be found under device web UI:

Account → Account X (X = 1 ~ 4) → SIP Advanced Settings:
• **Functionality**

These parameters are designed for more compatibility with 3rd parties SIP Proxy or IPPBX and good for ITSP service providers as well as System Integrators. The parameters can be adjusted by just fill in the corrected value or choose in pull-down menu selections.

**NOTE:**

- Make sure correct value are filled in. Otherwise DTMF open door will fail, there will be no audio and sometimes the call will just fail to establish.
- If don’t know the meaning or unsure the value adjusted, please use the default value.
- This feature is designed for Service Provider, or Service Technician or Installers.
- End users without necessary knowledge are strongly discouraged to change the parameters, avoiding the device not establish calls or not working properly.
**ALMOUT1 CONTROL DOOR2**

- **Web Configuration**

This feature is added to reuse ALMOUT1 port for DOOR2 Control. The option of this webUI can be found: Door System Settings → Basic Settings:

![Door System Settings](image)

- **Functionality**

This is a major feature enhancement, by re-use ALMOUT1 (COM1) interface to be either as per original design as normal alarm out with 3rd party device, or control DOOR2 operation (the two functions are mutual-exclusive).

Customers can now use this ALMOUT1 (COM1) interface to control DOOR2, in additional to the existing Locker/COM2 interface (controlling DOOR1). This feature when selected, will enable GDS3705 to control the operation of TWO DOORS via RFID, local and remote PINs.

For example, a 3rd party Wiegand Input device can be installed at DOOR2 with related cable wired into the GDS3705 installed at DOOR1. Now the DOOR1 and DOOR2 can be configured to be opened by programmed RFID cards, related PINs either separately or both.
NOTE:

- **Interface for Door Control (Which Door can be OPEN):**

If ALMOUT1 (COM1) interface is set to control DOOR2 opening, “Lock Status” can be configured by choose “Normal Open” or “Normal Close” based on the strike used.

Unlike default COM2 which is designed for strike control and having three connecting sockets, the ALMOUT1 (COM1) only has two connecting sockets. Therefore correct lock mode has to be configured to make the strike working as expected.

For above example, the GDS3705 is configured to control DOOR1 (wiring to COM2 interface); the 3rd party Wiegand Input is set to control DOOR2 (wiring to COM1 interface).
Universal PIN for Operation of Doors:

If Unified PIN (Universal PIN) is configured to open door, then which door can be controlled by the PIN is configured in the UI once "Unified PIN" selected.

For example, like above screenshot, if this universal PIN is set to open both DOOR1 and DOOR2, but due to previous "Control Option" set to open Door1, and "Wiegand Control" set to open Door2, therefore the final result will be the INTERSECT result of both sets with condition qualified.

In above case, The PIN will only work at GDS3705 (DOOR1) and Wiegand Device (DOOR2) local input respectively. Meaning input PIN at GDS3705 will only open DOOR1 and will NOT open DOOR2.
• Remote PIN to Operation of Doors:

For remote PIN to open door, the PIN can be configured in above setting.

The PIN can be different for DOOR1 and DOOR2 and has to be configured correctly in related IP Phone which will be used to operate “One Key Open Door”.

If BOTH doors need to be opened at the same time, then both DOOR1 and DOOR2 has to be configured with exactly SAME password or PIN as DTMP open door.
• Private PIN or Card & Private PIN:

If using RFID card or Private PIN to open door, then which door can be opened by the RFID card or Private PIN is configured via “Card Management”, see above screenshot.

NOTE:

• For all the setting, the final result of which door can be opened is the LOGIC INTERSECT OPERATION of ALL the sets of condition qualified.

• Download the DOOR OPEN LOGIC document for more details about open Two Doors.

• Download the TWO DOOR CONFIGURATION GUIDE for detailed reference.

• Please refer to GDS3705 USER MANUAL for details about how to configure and control the DOOR1 and DOOR2 operation respectively.
NORMAL OPEN/CLOSE IN ALMOUT1 (COM1) DOOR2 CONTROL

- **Web Configuration**

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

![Door System Settings](image)

- **Functionality**

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

When re-using ALMOUT1 (COM1) interface to “Open Door” (controlling DOOR2) instead of “Alarm Output” (this feature is mutual exclusive, ONLY one choice will work), customers can choose “Normal Open” or “Normal Close” based on the electrical locker or striker used.

Please choose correctly based on the electrical locker or striker installed to avoid wrong operation.
ADDED BOOT VERSION IN "STATUS" PAGE

- **Web Configuration**

This option can be found under device web UI → Status → System Info:

![System Info](image)

- **Functionality**

This is an enhancement to display more technical information of GDS3705 in the “Status” page to help supporting users or customers when doing troubleshooting.
FIRMWARE VERSION 1.0.0.37

PRODUCT NAME
GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B)

DATE
12/20/2018

SUMMARY OF UPDATE
The main purpose of this release is bug fix and feature enhancement

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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<td>GDS3705 HW1.4B</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
</tbody>
</table>

BUG FIX
- Fixed reboot loop due to specific P-values.
- Fixed issue with ANATEL Certificate.

ENHANCEMENT
- Added ability to configure device with custom certificate signed by custom CA certificate
- Added event log showing users opening door via private PIN
- Added SIP NOTIFY to factory reset
- Added option to disable outbound proxy route header for both GDS3705/GDS3710
- Added CONFIG for firmware and configure server path and type via SSH.
- Added PING function in the CLI interface SSH.
KNOWN ISSUES

- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side

NEW HTTP API

| P15476 | GET: [http|https]://<servername>/goform/config?cmd=get&type=sip  
| SET: [http|https]://<servername>/goform/config?cmd=set&P15476=<value> | 0: Disable  
| 1: Enable |
| P2305/P2405/P2505/P2605 | GET: [http|https]://<servername>/goform/config?cmd=get&type=sip  
| SET: [http|https]://<servername>/goform/config?cmd=set&Px=<value> | 0: in route  
| 1: not in route  
| 2:always send to |
| P2306/P2406/P2506/P2606 | GET: [http|https]://<servername>/goform/config?cmd=get&type=sip  
| SET: [http|https]://<servername>/goform/config?cmd=set&Px=<value> | 0: No  
| 1: Yes |

NEW P-VALUE

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<th>Account 1</th>
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<th>Account 3</th>
<th>Account 4</th>
<th>Model Supported</th>
<th>Values</th>
<th>Description</th>
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</table>
| <parameter>=<value> | <parameter>=<value> | <parameter>=<value> | <parameter>=<value> | GDS3705 | <0|1|2> | Outbound Proxy Mode 0:in route  
| 1: not in route  
| 2:always send to |
| P2305=<int> | P2405=<int> | P2505=<int> | P2605=<int> | GDS3705 | <0|1> | Validate Incoming Messages 0: No  
| 1: Yes |
| P2306=<int> | P2406=<int> | P2506=<int> | P2606=<int> | GDS3705 | <0|1> | |

<table>
<thead>
<tr>
<th>&lt;parameter&gt;=&lt;value&gt;</th>
<th>Model Supported</th>
<th>Values</th>
<th>Description</th>
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</thead>
</table>
| P15476 | GDS3705 | <0|1> | Allow Reset Via SIPNOTIFY 0: Disable (Default)  
| 1: Enable |
NEW FEATURES OVERVIEW
This section lists major new features and describes how to use them from the user’s point of view.

OPTION OF OUTBOUND PROXY MODE

• Web Configuration

New feature added to allow users to configure the outbound proxy mode, as well as “Validate Incoming Message”. This feature is very useful for ITSP service provider.

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

This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can make choosing different Outbound Proxy Mode for their customers to use the service based on different network environment.

**CONFIG FIRMWARE OR CONFIGURATION SERVER PATH AND ICMP TEST VIA SSH**

- **Web Configuration**

This feature is added to allow user to change firmware server path or configuration server path via SSH. This is very useful for ITSP or service contractors or installer to maintenance the device, for example, the webUI is purposed blocked, ITSP or Service Technician can use scripts in SSH to perform necessary configuration or maintenance, or upgrade firmware.

The SSH has to be enabled to use this feature. The option of this webUI can be found: System Settings → Access Settings:

![Access Settings](image)

- **Functionality**

This feature is added to allow users (service technician, installer, etc.) to configure or change the firmware server or configuration server path via SSH, enhance the security of SIP accounts configured in GDS3705.
3rd party SSH application like PuTTY is required to use this feature.

For example, below is the screenshot of such CLI interface:

NOTE:
- This feature is designed for ITSP Service Provider, or Service Technician or Installers.
- End users without necessary knowledge are strongly discouraged to access it, avoiding damage the device or making the device not working properly.
FIRMWARE VERSION 1.0.0.36

PRODUCT NAME
GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B)

DATE
11/06/2018

SUMMARY OF UPDATE
The main purpose of this release is bug fix and feature enhancement

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

<table>
<thead>
<tr>
<th>HW Version</th>
<th>FW</th>
<th>Comments</th>
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BUG FIX
- Fixed factory reset and configuration without another reboot the Wiegand port will not open door.
- Fixed data import in CSV format is not complete.
- Fixed confirmation tone not played when using SIP phone remote open door.
- Fixed parallel hunting preview mode the one key open door feature failed.
- Fixed cannot set strong admin password with special characters included.
- Fixed security vulnerability to compromise root access via SSH.

ENHANCEMENT
- Added ability to configure device with custom certificate signed by custom CA certificate
- Added SIP password hided and not visible in the WebUI
- Extended VLAN range from 0 ~ 55 to 0 ~ 4094
- Added option to display device temperature in Fahrenheit.
- Added support for special character "@" in the SIP User ID.
KNOWN ISSUES

- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side

NEW HTTP API

N/A

NEW P-VALUE

N/A
NEW FEATURES OVERVIEW
This section lists major new features and describes how to use them from the user’s point of view.

CUSTOM CERTIFICATE

- Web Configuration

New feature added to allow users to configure the device with custom certificate signed by custom CA certificate. This option can be found under device web UI: Maintenance → Certificates like below:

- Functionality

This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can make their own CA certificate and uploaded to the GDS device and provide service to their customers.
INVISIBLE SIP PASSWORD

- **Web Configuration**

This feature is added to enhance the security of SIP accounts configured in GDS3705. This can be found under device web UI:  Account → Account X (where X: 1 ~ 4)

- **Functionality**

This feature is added to enhance the security of SIP accounts configured in GDS3705. Password is invisible from the webUI.
SPECIAL SIP USER ID

- **Web Configuration**

This feature is added to enhance the compatibility of GDS3705 with some SIP Proxys which using special characters like “@” as user ID. This can be found under device web UI: Account → Account X (where X: 1 ~ 4)

![GDS3705 Web UI for Account 1 with SIP User ID](image)

- **Functionality**

This feature is added to enhance the compatibility of GDS3705 with some SIP Proxys which using special characters like “@” as user ID.
EXTENDED VLAN RANGE 0 ~ 4094

- Web Configuration

This feature is added to enhance the VLAN range. This can be found under device web UI: System Settings → Network Settings → Layer 2 QoS Settings:

- Functionality

This feature is added to enhance the VLAN parameter settings. User can input the related VLAN parameters based on the appropriate network environment.
DISPLAY TEMPERATURE IN FAHRENHEIT

- **Web Configuration**

  This feature is added to meet customers’ requirement. This can be found under device web UI: Status ➔ System Info:

  ![System Info](image)

- **Functionality**

  This feature is added to meet customers’ requirement and user habit.
FIRMWARE VERSION 1.0.0.35

PRODUCT NAME
GDS3705  (*HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B*)

DATE
09/21/2018

SUMMARY OF UPDATE
The main purpose of this release is bug fix and feature enhancement since $1 Beta.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

<table>
<thead>
<tr>
<th>HW Version</th>
<th>FW</th>
<th>Comments</th>
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<td>GDS3705 HW1.1A</td>
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<td>GDS3705 HW1.2A</td>
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<tr>
<td>GDS3705 HW1.3A</td>
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<tr>
<td>GDS3705 HW1.4B</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
</tbody>
</table>

BUG FIX
- Fixed digital input open door mode not functioning as expected.
- Fixed schedule cannot be saved when DI set to open door mode.
- Fixed Direct IP Call mode fail when SIP transmission set to TCP and TLS/TCP mode.
- Fixed no confirmation sound played when using GXP phone’s “one key open door” feature to open the door without answering the call from GDS.
- Fixed STUN disabled the local SIP port incorrect.
- Fixed DTMF tone too short sounds like got cut off.
- Fixed when using RFC2833 the DTMF is incorrect.
- Fixed enable “Silent Alarm” mode when alarm triggered at schedule not configured the GDS not sending alarm sound.
ENHANCEMENT

- Added SIP extensions and/or IP addresses or combined “Parallel Hunting” (simultaneously ringing) mode when doorbell pressed.
- Added “Normal Open” and “Normal Close” state option in digit input “Alarm Input” mode.
- Added ability to configure schedule for “Alarm In” Open Door.
- Added option to send “call completed elsewhere” when door is opened successfully by GXP phone so other GXP phones in the open door list will not show “missed call” in the call history.
- Added multiple SIP account support (up to 4 SIP accounts).
- Added feature to support CSV format when import or export data.
- Added “Check for Update” firmware upgrade button like GXV phones to check the latest firmware.
- Added option to set maximum digits dialed so when the number of digit matched the call will immediately sending out by GDS without “#” pressed.
- Added ability to assign/configure a time schedule to the doorbell.

KNOWN ISSUES

- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side
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>

FW upgrade operate
fw_upgrade:
http://<servername>/goform/config?cmd=fw_upgrade&type=<0/1>

Card Data Import/Export
export:
http://<servername>/goform/config?cmd= export&type=1&data_type=<0/1>
upload:
http://<servername>/goform/config?cmd= upload&type=0&dupopt=<0/1>

Pfw_available_version
GET:
<http|https>://<servername>/goform/config?cmd=get&type=door
### NEW P-VALUE

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Model Supported</th>
<th>Default Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
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<td>GDS3710/GDS3705</td>
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<td>Press Doorbell Schedule</td>
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<td>GDS3710/GDS3705</td>
<td>0 - 20</td>
<td>Maximum Number of Dialed Digits</td>
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</table>

<table>
<thead>
<tr>
<th>Account 1</th>
<th>Account 2</th>
<th>Account 3</th>
<th>Account 4</th>
<th>Model Supported</th>
<th>Values</th>
<th>Description</th>
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<td>&lt;parameter&gt;=&lt;value&gt;</td>
<td>&lt;parameter&gt;=&lt;value&gt;</td>
<td>GDS3705</td>
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<td>P271=&lt;int&gt;</td>
<td>P401=&lt;int&gt;</td>
<td>P501=&lt;int&gt;</td>
<td>P601=&lt;int&gt;</td>
<td>GDS3705</td>
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<td>P210=&lt;int&gt;</td>
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<td>P599=&lt;int&gt;</td>
<td>P699=&lt;int&gt;</td>
<td>GDS3705</td>
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<td>P407=&lt;string&gt;</td>
<td>P507=&lt;string&gt;</td>
<td>P607=&lt;string&gt;</td>
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<td>Account Name Max. Length = 64</td>
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<td>P47=&lt;string&gt;</td>
<td>P402=&lt;string&gt;</td>
<td>P502=&lt;string&gt;</td>
<td>P602=&lt;string&gt;</td>
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<td>Outbound Proxy Max. Length = 255</td>
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<td>Backup Outbound Proxy Max. Length = 255</td>
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<td>P503=&lt;string&gt;</td>
<td>P603=&lt;string&gt;</td>
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<td>GDS3705</td>
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<td>DNS Mode 0:A Record 1:SRV 2:NAPTR/SRV</td>
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<td>Account 1</td>
<td>Account 2</td>
<td>Account 3</td>
<td>Account 4</td>
<td>Model Supported</td>
<td>Values</td>
<td>Description</td>
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<td>SIP User ID Max. Length = 255</td>
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<td>P612=&lt;int&gt;</td>
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<td>P513=&lt;int&gt;</td>
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<td>1</td>
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<td>P2502=&lt;int&gt;</td>
<td>P2602=&lt;int&gt;</td>
<td>GDS3705</td>
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<td>1&gt; Enable DTMF RFC2833 0: Disable 1: Enable</td>
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<td>P2503=&lt;int&gt;</td>
<td>P2603=&lt;int&gt;</td>
<td>GDS3705</td>
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<td>P590=&lt;int&gt;</td>
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<td>&lt;0</td>
<td>1&gt; Enable Keep Alive 0: Disable 1: Enable</td>
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<td>Values</td>
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<td>0: Disable 1: Enable</td>
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<td>2&gt;</td>
<td>0: Disable 1: Enable but not Forced 2: Enable and Forced</td>
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<td>102&gt;</td>
<td>100: Standard 102: Broadsoft</td>
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<td>STUN Server</td>
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<td>Auto On-Hook Timer</td>
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<td>P29610=&lt;int&gt;</td>
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<td>Use Random Port</td>
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<td>SIP TLS Certificate</td>
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<td>Enable Direct IP Call</td>
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<td>0: Disable 1: Enable</td>
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<td>Enable two-way SIP Calling</td>
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<td>SIP Proxy Compatibility Mode</td>
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<td>0: Disable 1: Enable</td>
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<td>P10410=&lt;int&gt;</td>
<td>GDS3705</td>
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<td>Enable White List</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>0: Disable 1: Enable</td>
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<td>P10411=&lt;string&gt;</td>
<td>GDS3705</td>
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<td>Use (,) as separator when deleting multiple numbers.</td>
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<tr>
<td>P10420=&lt;int&gt;</td>
<td>GDS3705</td>
<td>&lt;0</td>
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<td>Enable White List</td>
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<td>0: Disable 1: Enable</td>
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<td>0: Disable 1: Enable</td>
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<td>GDS3705</td>
<td></td>
<td>Use (,) as separator when deleting multiple numbers.</td>
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</table>
NEW FEATURES OVERVIEW
This section lists major new features and describes how to use them from the user's point of view.

MULTIPLE SIP ACCOUNTS

- Web Configuration

New feature added to support up to 4 SIP Accounts. This option can be found under device web UI → Account Settings page like below:

![Account Settings Page](image)

- Functionality

This feature added to meet the requirement of customers. Up to 4 SIP Proxy can be configured into GDS3705, solving application scenes like multiple companies or residents in one building but sharing the same entry door. The speed dial shortcut can be configured to help customers easily dial to related party to ask for open door.
### New P-Value

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value Type</th>
<th>Model Supported</th>
<th>Supported Values</th>
<th>Description</th>
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<td>1&gt;</td>
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<td>GDS3705</td>
<td>&lt;0</td>
<td>1&gt;</td>
</tr>
<tr>
<td>P3</td>
<td>&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>Account Name Max. Length = 64</td>
</tr>
<tr>
<td>P47</td>
<td>&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>SIP Server Max. Length = 255</td>
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<td>P2312</td>
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<td>GDS3705</td>
<td></td>
<td>Secondary SIP Server Max. Length = 255</td>
</tr>
<tr>
<td>P48</td>
<td>&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>Outbound Proxy Max. Length = 255</td>
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<td>P2333</td>
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<td></td>
<td>Backup Outbound Proxy Max. Length = 255</td>
</tr>
<tr>
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<td>GDS3705</td>
<td>&lt;0</td>
<td>1</td>
</tr>
<tr>
<td>Account 1</td>
<td>Account 2</td>
<td>Account 3</td>
<td>Account 4</td>
<td>Model Supported</td>
</tr>
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<td>P412 = &lt;int&gt;</td>
<td>P512 = &lt;int&gt;</td>
<td>P612 = &lt;int&gt;</td>
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<td>P448 = &lt;int&gt;</td>
<td>P548 = &lt;int&gt;</td>
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<td>P2302 = &lt;int&gt;</td>
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<td>P2502 = &lt;int&gt;</td>
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<td>P2303 = &lt;int&gt;</td>
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<td>P2603 = &lt;int&gt;</td>
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<tr>
<td>P490 = &lt;int&gt;</td>
<td>P1309 = &lt;int&gt;</td>
<td>P590 = &lt;int&gt;</td>
<td>P690 = &lt;int&gt;</td>
<td>GDS3705</td>
</tr>
<tr>
<td>Account 1</td>
<td>Account 2</td>
<td>Account 3</td>
<td>Account 4</td>
<td>Model Supported</td>
</tr>
<tr>
<td>----------</td>
<td>----------</td>
<td>----------</td>
<td>----------</td>
<td>----------------</td>
</tr>
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<td>&lt;parameter&gt; = &lt;value&gt;</td>
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<td>&lt;parameter&gt; = &lt;value&gt;</td>
<td>GDS3705</td>
</tr>
<tr>
<td>0: No</td>
<td>1: Stun</td>
<td>2: Keep Alive</td>
<td>3: UPnP</td>
<td>4: Auto</td>
</tr>
<tr>
<td>P52=&lt;int&gt;</td>
<td>P414=&lt;int&gt;</td>
<td>P514=&lt;int&gt;</td>
<td>P614=&lt;int&gt;</td>
<td>GDS3705</td>
</tr>
<tr>
<td>0: Disable</td>
<td>1: Enable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P81=&lt;int&gt;</td>
<td>P411=&lt;int&gt;</td>
<td>P511=&lt;int&gt;</td>
<td>P611=&lt;int&gt;</td>
<td>GDS3705</td>
</tr>
<tr>
<td>0: Disable</td>
<td>1: Enable but not Forced</td>
<td>2: Enable and Forced</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P183=&lt;int&gt;</td>
<td>P443=&lt;int&gt;</td>
<td>P543=&lt;int&gt;</td>
<td>P643=&lt;int&gt;</td>
<td>GDS3705</td>
</tr>
<tr>
<td>100: Standard</td>
<td>102: Broadsoft</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>&lt;parameter&gt;=&lt;value&gt;</td>
<td>Model Supported</td>
<td>Values</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------</td>
<td>--------</td>
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<td></td>
</tr>
<tr>
<td>P76=&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>STUN Server</td>
<td></td>
</tr>
<tr>
<td>P39=&lt;int&gt;</td>
<td>GDS3705</td>
<td>1 - 65535</td>
<td>Local SIP Port</td>
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<td>GDS3705</td>
<td>0 - 65535</td>
<td>Auto On-Hook Timer (Seconds)</td>
<td></td>
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<tr>
<td>P29610=&lt;int&gt;</td>
<td>GDS3705</td>
<td>48-10000</td>
<td>Use Random Port</td>
<td></td>
</tr>
<tr>
<td>P14847=&lt;int&gt;</td>
<td>GDS3705</td>
<td>0 - 90</td>
<td>Ring Timeout</td>
<td></td>
</tr>
<tr>
<td>P280=&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>SIP TLS Certificate</td>
<td></td>
</tr>
<tr>
<td>P279=&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>SIP TLS Private Key</td>
<td></td>
</tr>
<tr>
<td>P281=&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>SIP TLS Private Key Password</td>
<td></td>
</tr>
<tr>
<td>P10453=&lt;int&gt;</td>
<td>GDS3705</td>
<td>&lt;0</td>
<td>1&gt;</td>
<td>Enable Direct IP Call 0: Disable 1: Enable</td>
</tr>
<tr>
<td>P8001=&lt;int&gt;</td>
<td>GDS3705</td>
<td>&lt;0</td>
<td>1&gt;</td>
<td>Enable two-way SIP Calling 0: Disable 1: Enable</td>
</tr>
<tr>
<td>P8003=&lt;int&gt;</td>
<td>GDS3705</td>
<td>&lt;0</td>
<td>1&gt;</td>
<td>SIP Proxy Compatibility Mode 0: Disable 1: Enable</td>
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<tr>
<td>P10410=&lt;int&gt;</td>
<td>GDS3705</td>
<td>&lt;0</td>
<td>1&gt;</td>
<td>Enable White List 0: Disable 1: Enable</td>
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<tr>
<td>P10411=&lt;string&gt;</td>
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<td>Use (,) as separator when deleting multiple numbers.</td>
<td></td>
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<td>1&gt;</td>
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<td>&lt;0</td>
<td>1&gt;</td>
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</tr>
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<td>P10431=&lt;string&gt;</td>
<td>GDS3705</td>
<td></td>
<td>Use (,) as separator when deleting multiple numbers.</td>
<td></td>
</tr>
</tbody>
</table>
• Flow Chart of Multiple SIP Account

![Flow Chart of Multiple SIP Account]

1) **Doorbell Call:**
Doorbell call can be configured to use maximum 4 SIP account line to call. The specific line used is configured in the “Card Management” settings. When configured as Auto (only works when related SIP proxy belong to one owner and function like fail-over), the GDS will check all the 4 accounts registered and call out using the first available registered account. Normal usage will be configured using selected account (in the “Card Management” page) to call out.
2) **WebUI Call:**

WebUI call is following the same calling protocol like 1). See below screenshot:

![WebUI Call Screenshot]

3) **Virtual # Call:**

Virtual # call can be configured in “Basic Settings” by choose “Call Mode” to be “Virtual Number” (default setting) like below:

![Virtual # Call Configuration]

Then configure and select the “Call Out Account” in the “Card Management” page like below, by using select specific account to call out:
4) **SIP Call:**

Similar to “Virtual # Call”, first configured in “Basic Settings” by choose “Call Mode” to be “SIP Number” (default setting) like below:

If the SIP extension has been configured in the “Card Management” page, then the call will send out using the account configured; if the SIP extension has not been configured in the “Card management” page, then default “Auto” will be used and call will send out via fist available registered SIP account.
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Username*</td>
<td>Steve</td>
</tr>
<tr>
<td>Private PIN</td>
<td>***********</td>
</tr>
<tr>
<td>Gender</td>
<td>Male</td>
</tr>
<tr>
<td>ID Number</td>
<td>603</td>
</tr>
<tr>
<td>Card Number*</td>
<td>2800346</td>
</tr>
<tr>
<td>Valid Start Date</td>
<td>1970-01-01</td>
</tr>
<tr>
<td>Valid End Date</td>
<td>2099-12-31</td>
</tr>
<tr>
<td>Virtual Number*</td>
<td>603</td>
</tr>
<tr>
<td>Sip Number</td>
<td>8001</td>
</tr>
<tr>
<td>Call Out Account</td>
<td>Auto</td>
</tr>
<tr>
<td>Cellphone</td>
<td></td>
</tr>
<tr>
<td>Group</td>
<td>Account 2</td>
</tr>
<tr>
<td>Schedule</td>
<td>Account 3</td>
</tr>
<tr>
<td>Enable</td>
<td></td>
</tr>
</tbody>
</table>

Note: Open Door will not work by PIN if password is blank.
5) **Direct IP Call:**

The “Direct IP Call” by default will always use “Account 1” to call out, using default port 5060. If different port or account used in the device at callee, it has to be configured according to ring at the correct port. For “Direct IP Call” the “User Random Port” has to be DISABLED in the device as callee.

By default “Enable Direct IP Call” is enabled in the “Phone Settings” of GDS.

![Door System Settings](image)

6) **Alarm Call:**

Alarm Call account selection can be configured in “Alarm Settings” by selecting “Alarm Phone” like below. The call out function is similar to doorbell call out function. If configured as “Auto”, the GDS will check all the 4 accounts registered and call out using 1st available registered account. Normally it will be configured to use particular account to call.
The “White List” configuration is under “Phone Settings” by choosing different SIP account configured.

More detailed information, please refer to the User Manual of GDS37xx series, which can be found from Grandstream website:

http://www.grandstream.com/products/physical-security/facility-access-systems
Multiple SIP Account Call Functions

1) SIP Registration:
The 4 SIP accounts can be configured independently to work without interfering each other.

2) GDS as Caller (Virtual # Mode)
The related “Virtual #” and “Account” can be configured in the “Card Management” page. “Auto” means polling from account 1 to 4 using already registered account to call and first available registered SIP account will be used.
The “Virtual #” is actually the “Speed Dial”. In above screenshot, virtual number “101” is speed dial shortcut for SIP number “1001”. When user dial “101”, the GDS will actually use the account configured in the “Card Management” page to call out. If user dial “101#”, GDS will call out via SIP number “1001” using related account.

For example, in a multi-tenant building, “virtual number” can be configured using the building room number, while actually “SIP number” can be mapped to different SIP Proxy using related SIP extension number(s).

3) GDS as Caller (SIP Mode)
   When configured in this mode, the GDS will automatically choose from Account 1 to 4 and use the first available registered account to call out.

4) GDS as Caller (Alarm Call)
   “Alarm Call” will use configured “Auto” or selected account to call out. If set to “Auto”, will use the first available successful registered proxy to call out.

5) GDS as Callee (Auto Answer)
   The 1st incoming call will be answered automatically by default.
   GDS3705 ONLY support one call at a particular time.
   GDS3710 when enabled multiple call (maximum 4 calls simultaneously), digits “1”, “2”, “3” and “4’ are used to switch among different calls.

6) Doorbell Call
   Support pre-configured calling number, maximum support 10 numbers.

7) White List
   The “White List” under different SIP account is working independently.
FIRMWARE VERSION 1.0.0.31

PRODUCT NAME
GDS3705 *(HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B)*

DATE
08/06/2018

SUMMARY OF UPDATE
The main purpose of this release is bug fix and enhancement since $1 Beta.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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<td>GDS3705 HW1.4B</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
</tbody>
</table>

BUG FIX
- Fixed device reboot after event alarm.
- Fixed device keep repeating registration.
- Fixed immediately Open Door issue when DST enabled.
- Fixed STUN process error.
- Fixed UI phone icon still showing “system busy” after the call.
- Fixed the key light not bright issue when using HTTP API to open door.
- Fixed SSH connection unauthorized after reboot when using static IP.
- Fixed “Expired Timer” in “Card Issuing Mode” cannot be saved.
- Fixed reboot issue when data exchanging with UCM.
- Fixed device cannot output key information when used as Wiegand output device.
- Fixed when configured SIP Alarm and Sound Alarm but continuously trigger alarms, the alarm sometime not sound but play door bell tone.
ENHANCEMENT

- Synchronization SRTP configuration UI with GDS3710, added “Enable but Not Forced; Enable and Forced” option.

KNOWN ISSUES

- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side.

NEW HTTP API/P-VALUE

- N/A
FIRMWARE VERSION 1.0.0.28

PRODUCT NAME
GDS3705  (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B)

DATE
06/19/2018

SUMMARY OF UPDATE
The main purpose of this release is bug fix and enhancement since $1 Beta.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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<td>GDS3705 HW1.3A</td>
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<td></td>
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<tr>
<td>GDS3705 HW1.4A</td>
<td>YES</td>
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</tr>
<tr>
<td>GDS3705 HW1.4B</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
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</table>

BUG FIX
- Fixed Import data exception.
- Fixed Wiegand as output device open door issue.
- Fixed Chime ring issue when Hostage Code Call Enabled.
- Fixed DNS analysis problem.
- Fixed the Valid Start Date input limit issue.
- Fixed "," in the group name causing UI display abnormal.
- Fixed ringing timeout set to "0" causes call failing to initiate.
- Fixed doorbell call failure if using IP peering but with no default port.

ENHANCEMENT
- Added HTTP Command to Open Door.
- Added 3CX compatibility features (e.g.: server side controlled UI automatic login)
- Added Optional Notification for out of schedule accessing attempts.
- Added Test Button for Alarm Action.
- Added missing Log Notification Type (Reboot/Reset/ConfigUpdate).
- Added Schedule Open Door Feature.
- Synchronized phone library with GXP phones with latest firmware.
- Added verification when importing configuration from UI.
- Added displaying SN number in the system information page.
- Added reboot protective schema when downloading interrupted or failed during upgrade process.

**KNOWN ISSUES**
- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- GDS Keypad input as Wiegand output still not working yet.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side

**NEW HTTP API/P-VALUE**

<table>
<thead>
<tr>
<th>&lt;parameter&gt;=&lt;value&gt;</th>
<th>Page</th>
<th>Values</th>
<th>Comments</th>
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<td>Keep Door Open</td>
<td>sch_open_door</td>
<td>Get Keep Door Open Configs</td>
</tr>
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<td>P15429=&lt;int&gt;</td>
<td>Keep Door Open</td>
<td>0,1,2</td>
<td>Keep Door Open Type</td>
</tr>
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<td>P15211=&lt;string&gt;</td>
<td>Keep Door Open</td>
<td></td>
<td>Valid Schedule Start Time</td>
</tr>
<tr>
<td>P15212=&lt;string&gt;</td>
<td>Keep Door Open</td>
<td></td>
<td>Valid Schedule End Time</td>
</tr>
<tr>
<td>P15213=&lt;string&gt;</td>
<td>Keep Door Open</td>
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<td>Schedule</td>
</tr>
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<td>Keep Door Open</td>
<td>5-480</td>
<td>Interval of Keep Door Open(min)</td>
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<tr>
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<td>Enable HTTP API Remote Open Door</td>
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<td>Alarm Action Settings</td>
<td>1-10</td>
<td>Test for Alarm action</td>
</tr>
<tr>
<td>P15407=&lt;int&gt;</td>
<td></td>
<td>0,1</td>
<td>Enable Non-scheduled Access Alarm</td>
</tr>
<tr>
<td>P15408=&lt;int&gt;</td>
<td></td>
<td>1-10</td>
<td>Non-scheduled Access Alarm Profile</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.

HTTP API OPEN DOOR

- **Web Configuration**

New feature added and this option can be found under device web UI → Door System Settings → Basic Settings page like below:

![Web UI Screenshot](image)

- **Functionality**

This feature allow 3rd party system integrators to do 2nd stage development based on provided HTTP API. Once enabled, door can be remotely opened by customers who running some scripts from HTTP Server to remotely control the opening of the door.

- **New P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Values</th>
<th>Default Value</th>
<th>Comments</th>
</tr>
</thead>
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<tr>
<td>P15424=&lt;int&gt;</td>
<td>Door System Basic Setting</td>
<td>0,1</td>
<td>Enable HTTP API Remote Open Door</td>
</tr>
</tbody>
</table>

More detailed information, please refer to latest HTTP API documentation for GDS37xx series, which can be found from Grandstream website:

NON-SCHEDULED ACCESS ALARM

• Web Configuration

This page can be found under “Alarm Settings” → “Alarm Events Config”

![Alarm Settings](image)

**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

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Values</th>
<th>Default Value</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>P15408</td>
<td>1~10</td>
<td>1</td>
<td>Non-scheduled Access Alarm Action Profile</td>
</tr>
</tbody>
</table>
“TEST” BUTTON IN ALARM ACTION

- Web Configuration

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

- Functionality

New feature added to allow use to click the “Test” button in the UI to test whether the configured Alarm Action working as expected during the configuration stage.
LOG NOTIFICATION TYPE

- Web Configuration

This page can be found under “Maintenance” → Event Log

- Functionality

Improved this feature to allow users or system administrator to search and display the related system logs in the webUI to understand the device operation history. See below example:
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 modes:

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

![Immediate Open Door](image)

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

![Schedule Open Door](image)

- **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.
MORE INFORMATION IN SYSTEM INFO PAGE

- **Web Configuration**

This option can be found under device web UI “Status” → System Info

![System Info](image)

- **Functionality**

New feature added to allow use and system administrator to view more live operation information of GDS3705 device.
FIRMWARE VERSION 1.0.0.26

PRODUCT NAME
GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A)

DATE
04/26/2018

SUMMARY OF UPDATE
The main purpose of this release is bug fix and enhancement for $1 Beta.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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<tr>
<td>GDS3705 HW1.1A</td>
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<td>YES</td>
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<td>YES</td>
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<td>GDS3705 HW1.4A</td>
<td>YES</td>
<td>FW1.0.0.20 as Initial Version for this HW version</td>
</tr>
</tbody>
</table>

BUG FIX
- Fixed Door Chime still plays after call answered.
- Fixed BagRep. Kiev (capital of Ukraine) missing in time zone list.
- Fixed wrong log date for Wiegand reset.
- Fixed callee hang up the device still playing tone continuously.
- Fixed when ringing timeout set to “0” call cannot be initiated.
- Fixed WebGUI limitation for Alarm Phone List and White List is not applied to P value import files and no error report generated when limitation overflow during the file import or restore.
- Fixed log failed to get version number if there is power outage during upgrade process. (Please avoid power and network outage during firmware upgrade process!)

ENHANCEMENT
- Added displaying logs at device’s webUI.
- Added ability to disable certificate validation.
- Added log record for system Up/Reboot/Reset/ConfigUpdate/FirmwareUpdate.
- Added support for uploading Trusted CA Certificates.
- Optimized socket/fd close.
- Changed MAC address to lowercase in exported data.
- Added Factory Function for Audio Loopback and Certificate Verification.
- Improved if firmware upgrade happened during a call, the other processes will not exit until call end. (not recommend doing firmware upgrade during a call, suggest doing upgrade when device idle)
- Separate configuration parameters for firmware upgrade and configuration provisioning.
- Added Event Notification support for self-define URL Template, HTTPS and FQDN.
- Improved the style of Form Element.
- Added Valid Start/End Date for RFID Card for management convenience.
- Improved “Password Recovery Email” configuration and check validation based on feedback.

**KNOWN ISSUES**
- Zero Config Feature with UCM is not yet implemented.
- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Dual Mic function is invalid.
- When doorbell volume set to 0 still hearing the ring back tone.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- GDS Keypad input as Wiegand output still not working yet.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side

**NEW P-VALUE**

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<tbody>
<tr>
<td>P6767</td>
<td>1- HTTP; 2- HTTPS</td>
<td>1</td>
<td>Firmware Upgrade Via Type</td>
</tr>
<tr>
<td>P6768</td>
<td>&lt;string&gt; Max.length=512</td>
<td></td>
<td>Firmware Upgrade HTTP/HTTPS User Name</td>
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<tr>
<td>P6769</td>
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<tr>
<td>P8463</td>
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<td>Validate Server Certificates</td>
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<tr>
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<td>Event Notification Via Type</td>
</tr>
</tbody>
</table>
NEW HTTP API

<table>
<thead>
<tr>
<th>&lt;parameter&gt;=&lt;value&gt;</th>
<th>Page</th>
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<tbody>
<tr>
<td>P6767=&lt;int&gt;</td>
<td>Upgrade</td>
<td>1,2</td>
<td>Firmware Upgrade Via Type</td>
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<tr>
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<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 Certificate</td>
<td>trustedca</td>
<td>Get Trusted CA Certificates info</td>
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<tr>
<td>P8433-P8438=&lt; string &gt;</td>
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<td>string</td>
<td>Trusted CA Certificates Files</td>
</tr>
<tr>
<td>type=&lt;string&gt;</td>
<td>eventlog</td>
<td>eventlog</td>
<td>Get event log</td>
</tr>
<tr>
<td>Eventtype=&lt;int&gt;</td>
<td>eventlog</td>
<td>100-1408</td>
<td>Query event type</td>
</tr>
<tr>
<td>Logstartdate=&lt;int&gt;</td>
<td>eventlog</td>
<td></td>
<td>Query event log start date e.g. 20180330 - 2018-03-30</td>
</tr>
<tr>
<td>Logenddate=&lt;int&gt;</td>
<td>eventlog</td>
<td></td>
<td>Query event log end date e.g. 20180330 - 2018-03-30</td>
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<tr>
<td>Logstarttime=&lt;int&gt;</td>
<td>eventlog</td>
<td></td>
<td>Query event log start time e.g. 121110 - 12:11:10</td>
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<td></td>
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<tr>
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<td>Get Factory Functions info</td>
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<td>Audio Loopback Test: 1 - stop; 0 - start</td>
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<tr>
<td>P15416=&lt; string &gt;</td>
<td>Event Notification</td>
<td></td>
<td>Event Notification URL Template</td>
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</table>
NEW FEATURES OVERVIEW

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

EVENT NOTIFICATION

- **Web Configuration**

New feature added and this option can be found under device web UI → Maintenance → Event Notification.

- **Functionality**

This feature allows 3rd party HTTP Server to collect event notification live from GDS3705. Server URL, Username, and Password are required to authenticate the operation. Also, 3rd party can use template to collect the operation status of the device, used for cloud solution.

- **New P-Value**

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TRUSTED CA CERTIFICATES

- **Web Configuration**

Added “Upload” and “Delete” Trusted CA Certificates management.

This page can be found under “Maintenance” → Trusted CA Certificates

- **Functionality**

This feature allow the management of Trusted CA Certificates.
CARD MANAGEMENT – Valid Start/End Date for Card/User

- **Web Configuration**

New feature added the configuration of Start and End Date of the Card/User, implemented based on customer feedback. This helps the management and maintenance task of daily access system.

This option can be found under device web UI “Door System Settings” → Card Management → Click “Edit” to modify each Card/User.

- **Functionality**

This helps the management and maintenance task of daily access system. For example, customer can pre-configure the date of the cards for new employees or temporary seasoning workers and send out the cards before new employees coming to work.
PASSWORD RECOVER EMAIL CONFIGURATION

- Web Configuration

This page can be found under “System Settings” → User Management

- Functionality

Improved this feature layout based on feedback. For security consideration, this device does not have hard reset key therefore administration password is very important. “Password Recover Email” is designed for user who lost password, but that has to be configured correctly before this can start function. Also whenever user changing the administrator password, this will also kick in to prompt user to configure the recover email.

There are two pages involved this configuration or settings:

1) User Management Page:

As see in above screenshot, whenever change administrator password but SMTP setting is not configure, the “Void SMTP Setup. Please configure a valid SMTP service in Email Setting Page!” will prompt up, reminding user to setup the correct SMTP service.

User are strongly suggested to configure the “Password Recover Email Address”, similar to below:

Change Recover Email

```
Password Recover Email Address  lost_password@yourcompany.com
```
There are two “Email Settings” in the page, click any of them will be directed to following screen:

Once configured, user can click the “Email Test” button located at the bottom of this configuration page to test the validation of the configuration:
If the configuration is incorrect, following prompt will be displayed on screen:

Invalid Response. Please check network connection or SMTP settings, or contact the email service provider.
2) Login Page

At the login page, there is a link showing “Forgot Password?”

Click the link will pop up the following page to ask input the “Email Address” for the Recover Password to be sent to:

If the “Password Recover Email Address” and related SMTP is configured correctly, then click the “OK”
button the device will email the administrator password to the inputted email address, if the email address entered matches the pre-configured “Password Recover Email Address” inside the device and the device with working SMTP service configured.

Otherwise the device will prompt the following message at top of the UI page to advise user to configure the related parameters or service, to make this feature working. User can still click “Cancel” to omit these setting and continue the UI operation but this is bad operation behavior.

Grandstream strongly suggest user to configure a working email address as “Password Recover Email Address” and also configure a good SMTP service to the device. So if something happened, the administrator can get the password recover email to unlock the device.

Also with a working SMTP service configured, alarm emails can also be sent out. Snapshots of Alarm or snapshot when doorbell pressed can also be sent out as email attachment via the configured SMTP service to related receivers.
FIRMWARE VERSION 1.0.0.23

PRODUCT NAME
GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A)

DATE
03/26/2018

SUMMARY OF UPDATE
The main purpose of this release is bug fix and enhancement for $1 Beta.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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BUG FIX
- Dingdong door bell sound delayed playing out quite a lot comparing to GDS3710
- Fixed SIP number search not support “IP+Port” type
- Fixed without receiver, click “Test” and “Save” still show mail test successful
- Fixed doorbell sticky key (triggered twice) caused the initialized call hanging up
- Fixed enable Hostage Code the doorbell sound still played
- Fixed enable Silent Alarm Mode the doorbell sound still played
- Fixed Wiegand card open door the log information without card number

ENHANCEMENT
- Added UI showing Temperature/TamperSensor/DoorControl/DI/DO in the System Info Page
- Enhanced HTTP format to facilitate the 3rd party parsing Event Notification

KNOWN ISSUES
- Zero Config Feature with UCM is not yet implemented.
- When doorbell volume set to 0 still hearing the ring back tone.
- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Dual Mic function is invalid.
- GDS Keypad input as Wiegand output still not working yet.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side
- WebGUI limitation for Alarm Phone List and White List is not applied to P value import files and no error report generated when limitation overflow during the file import or restore.

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<td>0</td>
<td>Enable Log Reporting</td>
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<tr>
<td>P15413</td>
<td>&lt;string&gt; Max.length=256</td>
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<td>HTTP Server URL</td>
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<td>HTTP Server Username</td>
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### NEW HTTP API

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<td></td>
<td></td>
<td></td>
<td>0 - Untriggered,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
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<td>atp_in=&lt;int&gt;</td>
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NEW FEATURES OVERVIEW
This section lists major new features and describes how to use it from the user’s point of view.

EVENT NOTIFICATION

- Web Configuration

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

- Functionality

This feature allows 3rd party HTTP Server to collect event notifications live from GDS3705. Server URL, Username, and Password are required to authenticate the operation.

- New P-Value

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SYSTEM INFO

- **Web Configuration**

Added system information status for: *System Temperature, Tamper Sensor, Door Controller, Digital Input Interface 1, Digital Input Interface 2 and Digital Output.*

This page can be found under device web UI → Status → System Info

- **Functionality**

This feature will notify user the operation status of GDS3705
- **New HTTP API**

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FIRMWARE VERSION 1.0.0.20

PRODUCT NAME
GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A)

DATE
02/26/2018

SUMMARY OF UPDATE
Initial public release. The main purpose of this release is for $1 Beta.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

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BUG FIX
- Fixed alarm call no siren sound when enabled SRTP.

KNOWN ISSUES
- Zero Config Feature with UCM is not yet implemented.
- Dingdong door bell sound delayed playing out quite a lot comparing to GDS3710
- Continuously swiping invalid cards will sometime cause "pu" noise from speaker.
- When doorbell volume set to 0 still hearing the ring back tone.
- Playing Prompt Audio from Proxy/UCM sometimes distorted.
- Sending repeating registration packets to Server when receiving Terminate/Notify message.
- Dual Mic function is invalid.
- GDS Keypad input as Wiegand output still not working yet.
- Silent Alarm to SIP phone still playing siren at phone side after pressing keypad at phone side
- WebGUI limitation for Alarm Phone List and White List is not applied to P value import files and no error report generated when limitation overflow during the file import or restore.
NEW P-VALUE

- N/A

NEW HTTP API

- N/A