

# GDS370X Firmware Release Note

## Table of Content

|  |           |
|--|-----------|
| <b>Table of Content.....</b>   | <b>1</b>  |
| <b>FIRMWARE VERSION 1.0.3.11.....</b>                                    | <b>8</b>  |
| PRODUCT NAME.....  | 8         |
| DATE .....   | 8         |
| SUMMARY OF UPDATE .....  | 8         |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                          | 8         |
| BUG FIX .....  | 9         |
| ENHANCEMENT .....  | 9         |
| KNOWN ISSUES.....  | 9         |
| NEW HTTP API .....   | 10        |
| NEW P-VALUE .....  | 10        |
| NEW FEATURES OVERVIEW .....  | 11        |
| <i>DOORBELL CALL DIFFERENT NUMBERS BASED ON DIFFERENT SCHEDULE .....</i> | <i>11</i> |
| <b>FIRMWARE VERSION 1.0.3.10 .....</b>                                   | <b>15</b> |
| PRODUCT NAME.....  | 15        |
| DATE .....   | 15        |
| SUMMARY OF UPDATE .....  | 15        |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                          | 15        |
| BUG FIX .....  | 16        |
| ENHANCEMENT .....  | 17        |
| KNOWN ISSUES.....  | 17        |
| NEW HTTP API .....   | 18        |
| NEW P-VALUE .....  | 18        |
| NEW FEATURES OVERVIEW .....  | 19        |
| <i>TR069/GDMS SUPPORT.....</i>   | <i>19</i> |
| <b>FIRMWARE VERSION 1.0.1.21 .....</b>                                   | <b>21</b> |
| PRODUCT NAME.....  | 21        |
| DATE .....   | 21        |
| SUMMARY OF UPDATE .....  | 21        |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                          | 21        |
| BUG FIX .....  | 21        |

|  |           |
|--|-----------|
| ENHANCEMENT .....  | 22        |
| KNOWN ISSUES.....  | 22        |
| NEW HTTP API .....   | 23        |
| NEW P-VALUE .....  | 24        |
| NEW FEATURES OVERVIEW .....  | 25        |
| <i>CISCO WEBEX COMPATABLE .....</i>  | <i>25</i> |
| <i>3CX IOT COMPATABLE .....</i>  | <i>27</i> |
| <i>CONFIGURABLE KEYPAD BLUE LIGHT ON/OFF .....</i>                               | <i>28</i> |
| <i>UNAUTHORIZED CARD SWIPE (WIEGAND READER) ALERTED IN EVENT LOG .....</i>       | <i>29</i> |
| <i>INCREASED WHITELIST IN EACH ACCOUNT .....</i>                                 | <i>30</i> |
| <b>FIRMWARE VERSION 1.0.1.16 .....</b>   | <b>32</b> |
| PRODUCT NAME.....  | 32        |
| DATE .....   | 32        |
| SUMMARY OF UPDATE .....  | 32        |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                                  | 32        |
| BUG FIX .....  | 32        |
| ENHANCEMENT .....  | 33        |
| KNOWN ISSUES.....  | 33        |
| NEW HTTP API .....   | 34        |
| NEW P-VALUE .....  | 34        |
| NEW FEATURES OVERVIEW .....  | 35        |
| <i>PAIR WITH GSC3570 OPEN DOOR W/O SIP CALL .....</i>                            | <i>35</i> |
| <i>SCHEDULED AUTO REBOOT .....</i>   | <i>38</i> |
| <i>ENHANCED OPEN DOOR VIA 3<sup>RD</sup> PARTY WEBRELAY WITH ON/OFF URL.....</i> | <i>39</i> |
| <i>ALARM ACTION WHEN ILLEGAL CARD SWIPED.....</i>                                | <i>41</i> |
| <i>MODIFIED CARD MANAGEMENT PAGE .....</i>                                       | <i>42</i> |
| <i>WEBUI PASSWORD DISPLAY WITH SECURITY AND CONVENIENCE.....</i>                 | <i>43</i> |
| <i>GSC3570 SECURE OPEN DOOR BY PAIRING WITH GDS37XX .....</i>                    | <i>44</i> |
| <i>ADDED SIP ACCOUNT ACTIVE FEATURE .....</i>                                    | <i>47</i> |
| <i>ADD "GMT-3:30" TIME ZONE SUPPORT.....</i>                                     | <i>48</i> |
| <b>FIRMWARE VERSION 1.0.1.11.....</b>  | <b>49</b> |
| PRODUCT NAME.....  | 49        |
| DATE .....   | 49        |
| SUMMARY OF UPDATE .....  | 49        |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                                  | 49        |
| BUG FIX .....  | 49        |
| ENHANCEMENT .....  | 50        |
| KNOWN ISSUES.....  | 50        |
| NEW HTTP API .....   | 51        |

|  |    |
|--|----|
| NEW P-VALUE .....  | 51 |
| MODIFIED P-VALUE .....                                   | 52 |
| NEW FEATURES OVERVIEW .....                              | 53 |
| <i>SUPPORT WEBRELAY OPEN DOOR</i> .....                  | 53 |
| <i>SUPPORT OPEN VPN</i> .....                            | 54 |
| <i>ADDED CALL TERMINATION BUTTON IN WEBUI</i> .....      | 55 |
| <i>INCREASED UNLOCK HOLDING TIME TO 30 MINUTES</i> ..... | 56 |
| <i>CHANGED SIP ACCOUNT NAME TO DISPLAY NAME</i> .....    | 57 |
| <i>ADDED REBOOT/RESYNC VIA SIP NOTIFY</i> .....          | 58 |

## **FIRMWARE VERSION 1.0.1.6 ..... 59**

|   |    |
|---|----|
| PRODUCT NAME .....  | 59 |
| DATE .....  | 59 |
| SUMMARY OF UPDATE .....   | 59 |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                                   | 59 |
| BUG FIX .....   | 59 |
| ENHANCEMENT .....   | 60 |
| KNOWN ISSUES .....  | 60 |
| NEW HTTP API .....  | 61 |
| NEW P-VALUE .....   | 61 |
| MODIFIED P-VALUE .....  | 61 |
| NEW FEATURES OVERVIEW .....   | 62 |
| <i>SUPPORT FAILOVER MECHANISM ON DNS SRV</i> .....                                | 62 |
| <i>SIREN ALARMING WHEN DOOR OPENED ABNORMALLY (SPECIAL WIRING REQUIRED)</i> ..... | 64 |
| <i>SUPPORT HOLIDAYS IN KEEP DOOR OPEN SCHEDULE</i> .....                          | 68 |
| <i>RESET FACTORY PASSWORD VIA SPECIAL KEY COMBINATION OPERATION</i> .....         | 69 |

## **FIRMWARE VERSION 1.0.1.3 ..... 71**

|   |    |
|---|----|
| PRODUCT NAME .....  | 71 |
| DATE .....  | 71 |
| SUMMARY OF UPDATE .....   | 71 |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....   | 71 |
| BUG FIX .....   | 71 |
| ENHANCEMENT .....   | 72 |
| KNOWN ISSUES .....  | 72 |
| NEW HTTP API .....  | 73 |
| NEW P-VALUE .....   | 74 |
| MODIFIED P-VALUE .....  | 74 |
| NEW FEATURES OVERVIEW .....   | 75 |
| <i>Advanced SIP Settings for ITSPs: Re-register &amp; Accept incoming calls from Proxy Only</i> ..... | 75 |
| <i>DHCP Option 42</i> .....   | 76 |

|  |           |
|--|-----------|
| <i>DNS SRV Support .....</i>                                     | <i>77</i> |
| <i>Multiple Audio Codecs and Voice Frame Per TX Support.....</i> | <i>78</i> |
| <i>Set Schedule for Upgrade/Provisioning.....</i>                | <i>79</i> |
| <i>Separate Credentials for GDSManager.....</i>                  | <i>80</i> |

## **FIRMWARE VERSION 1.0.0.41 ..... 82**

|   |     |
|---|-----|
| PRODUCT NAME.....                                       | 82  |
| DATE .....  | 82  |
| SUMMARY OF UPDATE .....                                 | 82  |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....         | 82  |
| BUG FIX .....   | 82  |
| ENHANCEMENT .....                                       | 83  |
| KNOWN ISSUES.....                                       | 83  |
| NEW HTTP API .....                                      | 84  |
| NEW P-VALUE .....                                       | 85  |
| MODIFIED P-VALUE .....                                  | 85  |
| NEW FEATURES OVERVIEW .....                             | 86  |
| SYSTEM HEALTH ALERT.....                                | 86  |
| ENABLE/DISABLE WEB ACCESS .....                         | 87  |
| NO KEY INPUT TIMEOUT .....                              | 88  |
| OPEN DOOR VIA DIGITS ONLY PRIVATE PIN .....             | 90  |
| SET SCHEDULE FOR LOCAL PIN OPEN DOOR.....               | 91  |
| SYNCHRONIZE “KEEP DOOR OPEN” WITH GDSMANAGER .....      | 94  |
| DTMF PAYLOAD AND RTCP/RTCP-XR .....                     | 96  |
| ALMOUT1 CONTROL DOOR2 .....                             | 98  |
| NORMAL OPEN/CLOSE IN ALMOUT1 (COM1) DOOR2 CONTROL ..... | 103 |
| ADDED BOOT VERSION IN “STATUS” PAGE .....               | 104 |

## **FIRMWARE VERSION 1.0.0.37 ..... 105**

|   |     |
|---|-----|
| PRODUCT NAME.....   | 105 |
| DATE .....  | 105 |
| SUMMARY OF UPDATE .....   | 105 |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                         | 105 |
| BUG FIX .....   | 105 |
| ENHANCEMENT .....   | 105 |
| KNOWN ISSUES.....   | 106 |
| NEW HTTP API .....  | 106 |
| NEW P-VALUE .....   | 106 |
| NEW FEATURES OVERVIEW .....   | 107 |
| OPTION OF OUTBOUND PROXY MODE .....                                     | 107 |
| CONFIG FIRMWARE OR CONFIGURATION SERVER PATH AND ICMP TEST VIA SSH..... | 108 |

## **FIRMWARE VERSION 1.0.0.36 ..... 110**

|   |     |
|---|-----|
| PRODUCT NAME.....                               | 110 |
| DATE .....                                      | 110 |
| SUMMARY OF UPDATE .....                         | 110 |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY ..... | 110 |
| BUG FIX .....                                   | 110 |
| ENHANCEMENT .....                               | 110 |
| KNOWN ISSUES.....                               | 111 |
| NEW HTTP API .....                              | 111 |
| NEW P-VALUE .....                               | 111 |
| NEW FEATURES OVERVIEW .....                     | 112 |
| <i>CUSTOM CERTIFICATE</i> .....                 | 112 |
| <i>INVISIBLE SIP PASSWORD</i> .....             | 113 |
| <i>SPECIAL SIP USER ID</i> .....                | 114 |
| <i>EXTENDED VLAN RANGE 0 ~ 4094</i> .....       | 115 |
| <i>DISPLAY TEMPERATURE IN FAHRENHEIT</i> .....  | 116 |

## **FIRMWARE VERSION 1.0.0.35 ..... 117**

|   |     |
|---|-----|
| PRODUCT NAME.....                               | 117 |
| DATE .....                                      | 117 |
| SUMMARY OF UPDATE .....                         | 117 |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY ..... | 117 |
| BUG FIX .....                                   | 117 |
| ENHANCEMENT .....                               | 118 |
| KNOWN ISSUES.....                               | 118 |
| NEW HTTP API .....                              | 119 |
| NEW P-VALUE .....                               | 120 |
| NEW FEATURES OVERVIEW .....                     | 124 |
| <i>MULTIPLE SIP ACCOUNTS</i> .....              | 124 |

## **FIRMWARE VERSION 1.0.0.31 ..... 137**

|   |     |
|---|-----|
| PRODUCT NAME.....                               | 137 |
| DATE .....                                      | 137 |
| SUMMARY OF UPDATE .....                         | 137 |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY ..... | 137 |
| BUG FIX .....                                   | 137 |
| ENHANCEMENT .....                               | 138 |
| KNOWN ISSUES.....                               | 138 |
| NEW HTTP API/P-VALUE .....                      | 138 |

## **FIRMWARE VERSION 1.0.0.28 ..... 139**

|  |            |
|--|------------|
| PRODUCT NAME.....  | 139        |
| DATE .....   | 139        |
| SUMMARY OF UPDATE .....                                      | 139        |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....              | 139        |
| BUG FIX .....  | 139        |
| ENHANCEMENT .....  | 139        |
| KNOWN ISSUES.....  | 140        |
| NEW HTTP API/P-VALUE .....                                   | 140        |
| NEW FEATURES OVERVIEW .....                                  | 141        |
| <i>HTTP API OPEN DOOR.....</i>                               | <i>141</i> |
| <i>NON-SCHEDULED ACCESS ALARM .....</i>                      | <i>142</i> |
| <i>"TEST" BUTTON IN ALARM ACTION .....</i>                   | <i>143</i> |
| <i>LOG NOTIFICATION TYPE.....</i>                            | <i>144</i> |
| <i>OPEN DOOR BY CONFIGURED SCHEDULE OR TIME WINDOW .....</i> | <i>145</i> |
| <i>MORE INFORMAITON IN SYSTEM INFO PAGE.....</i>             | <i>146</i> |

## **FIRMWARE VERSION 1.0.0.26 ..... 147**

|   |            |
|---|------------|
| PRODUCT NAME.....   | 147        |
| DATE .....  | 147        |
| SUMMARY OF UPDATE .....   | 147        |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY .....                   | 147        |
| BUG FIX .....   | 147        |
| ENHANCEMENT .....   | 147        |
| KNOWN ISSUES.....   | 148        |
| NEW P-VALUE .....   | 148        |
| NEW HTTP API .....  | 149        |
| NEW FEATURES OVERVIEW .....                                       | 150        |
| <i>EVENT NOTIFICATION.....</i>                                    | <i>150</i> |
| <i>TRUSTED CA CERTIFICATES .....</i>                              | <i>151</i> |
| <i>CARD MANAGEMENT – Valid Start/End Date for Card/User .....</i> | <i>152</i> |
| <i>PASSWORD RECOVER EMAIL CONFIGURATION .....</i>                 | <i>153</i> |

## **FIRMWARE VERSION 1.0.0.23 ..... 158**

|   |     |
|---|-----|
| PRODUCT NAME.....                               | 158 |
| DATE .....                                      | 158 |
| SUMMARY OF UPDATE .....                         | 158 |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY ..... | 158 |
| BUG FIX .....                                   | 158 |
| ENHANCEMENT .....                               | 158 |
| KNOWN ISSUES.....                               | 158 |
| NEW P-VALUE .....                               | 159 |

|   |            |
|---|------------|
| NEW HTTP API .....                              | 159        |
| NEW FEATURES OVERVIEW .....                     | 160        |
| <i>EVENT NOTIFICATION</i> .....                 | 160        |
| <i>SYSTEM INFO</i> .....                        | 161        |
| <b>FIRMWARE VERSION 1.0.0.20 .....</b>          | <b>163</b> |
| PRODUCT NAME .....                              | 163        |
| DATE .....                                      | 163        |
| SUMMARY OF UPDATE .....                         | 163        |
| FIRMWARE APPLIES TO BELOW HW VERSION ONLY ..... | 163        |
| BUG FIX .....                                   | 163        |
| KNOWN ISSUES .....                              | 163        |
| NEW P-VALUE .....                               | 164        |
| NEW HTTP API .....                              | 164        |

## FIRMWARE VERSION 1.0.3.11

### PRODUCT NAME

GDS3702 (*HW Supported: 1.0A*)

GDS3705 (*HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B, 3.0A, 3.1A, 3.2A*)

CPE: 1.0.4.4

### DATE

05/18/2022

### SUMMARY OF UPDATE

This firmware of GDS370X is mainly for bug fixes, feature enhancement, and new HW support.

**Factory Reset** is recommended if upgrading from very old firmware, or experiencing abnormal Web UI 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

| HW Version     | FW  | Comments   |
|----------------|-----|--|
| GDS3705 HW1.1A | YES |  |
| GDS3705 HW1.2A | YES |  |
| GDS3705 HW1.3A | YES |  |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version, not able to downgrade |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version, not able to downgrade |
| GDS3705 HW3.0A | YES |  |
| GDS3705 HW3.1A | YES | FW1.0.1.17 as Initial Version for this HW version, not able to downgrade |
| GDS3705 HW3.2A | YES | FW1.0.1.21 as Initial Version for this HW version, not able to downgrade |
| GDS3702 HW1.0A | YES | FW1.0.3.10 as Initial Version for the new model                          |



## BUG FIX

- Fixed the format for maximum number of Login attempts is wrong.
- Fixed the related private password open door may fail after adding RFID card via HTTP API.
- Fixed the valid end date displayed blank when using HTTP API to add a RFID card.
- Fixed no key tone after reset via Weigand.
- Fixed the “Enable password display (HTTPS)” option the prompt not accurate.
- Fixed device not work when using static IP with VLAN.
- Fixed Card Management page remains in loading stage after adding a card user.
- Fixed “Event Notification” HTTP POST method using wrong Content-Type for sample template 1 & 2.

## ENHANCEMENT

- Added ability to disable CFG download with password (ITSP/Telefonica).
- Added support of configure different “Number Called When Door Bell Pressed” entries depending on the time frame or schedule.

## 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

```

GET:[http|https]://<servername>/goform/config?cmd=get&type=door
SET:[http|https]://<servername>/goform/config?cmd=set&P15556=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15557=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15558=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15559=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15560=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P15561=<value>
  
```

## NEW P-VALUE

|        |   |
|--------|---|
| P15557 | Door_System_Settings.Basic_Settings.Press_Doorbell_Schedule_2<br>(Value: 0 ~ 10)                                |
| P15556 | Door_System_Settings.Basic_Settings.Number_2_Called_When_Doorbell_Pressed<br>(Value: String, Max. Length = 255) |
| P15559 | Door_System_Settings.Basic_Settings.Press_Doorbell_Schedule_3<br>(Value: 0 ~ 10)                                |
| P15558 | Door_System_Settings.Basic_Settings.Number_3_Called_When_Doorbell_Pressed<br>(Value: String, Max. Length = 255) |
| P15561 | Door_System_Settings.Basic_Settings.Press_Doorbell_Schedule_4<br>(Value: 0 ~ 10)                                |
| P15560 | Door_System_Settings.Basic_Settings.Number_4_Called_When_Doorbell_Pressed<br>(Value: String, Max. Length = 255) |

## NEW FEATURES OVERVIEW

This section lists major new features or improvement and advise customers how to use them.

### DOORBELL CALL DIFFERENT NUMBERS BASED ON DIFFERENT SCHEDULE

- **Web Configuration**

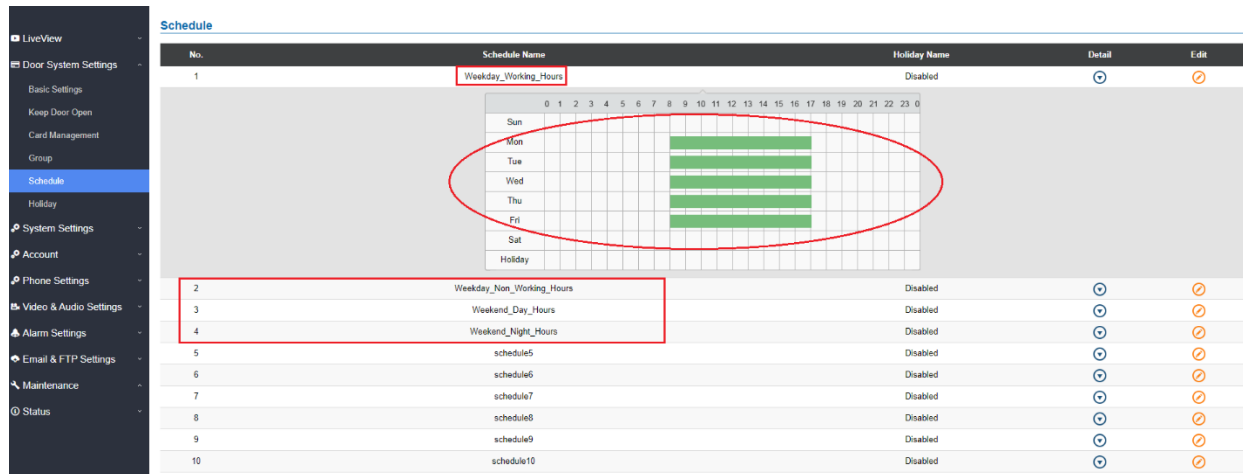
This option can be found under device web UI → Door System Settings → Basic Settings:

|   |   |                               |                               |
|---|---|-------------------------------|-------------------------------|
| <div>LiveView</div> <div>Door System Settings</div> <div>Basic Settings</div> <div>Keep Door Open</div> <div>Card Management</div> <div>Group</div> <div>Schedule</div> <div>Holiday</div> <div>System Settings</div> <div>Account</div> <div>Phone Settings</div> <div>Video &amp; Audio Settings</div> <div>Alarm Settings</div> <div>Email &amp; FTP Settings</div> <div>Maintenance</div> <div>Status</div> | Call Mode   | SIP Number                    |                               |
|   | Doorbell Call Out Account   | Auto                          |                               |
|   | Doorbell Mode   | Call Doorbell Number          |                               |
|   | Doorbell Call Mode  | Parallel Hunting              |                               |
|   | Press Doorbell Schedule 1   | Weekday_Working_Hours         | <a href="#">Edit Schedule</a> |
|   | Number 1 Called When Doorbell Pressed   | 192.168.11.235:5060,          |                               |
|   | Press Doorbell Schedule 2   | Weekday_Non_Working_Hours     | <a href="#">Edit Schedule</a> |
|   | Number 2 Called When Doorbell Pressed   | 800                           |                               |
|   | Press Doorbell Schedule 3   | Weekend_Day_Hours             | <a href="#">Edit Schedule</a> |
|   | Number 3 Called When Doorbell Pressed   | 805                           |                               |
|   | Press Doorbell Schedule 4   | Weekend_Night_Hours           | <a href="#">Edit Schedule</a> |
|   | Number 4 Called When Doorbell Pressed   | 806                           |                               |
|   | Maximum Number of Dialed Digits   | 0                             |                               |
|   | No Key Input Timeout(s)   | 4                             |                               |
|   | Remote PIN to Open Door 1   | ...                           |                               |
| Remote PIN to Open Door 2   | ...   |                               |                               |
| Local PIN Type  | Unified PIN   |                               |                               |
| Unified PIN Open Door Options   | <input checked="" type="checkbox"/> Door 1 <input checked="" type="checkbox"/> Door 2 |                               |                               |
| Local PIN to Open Dcor  | ...   |                               |                               |
| Local PIN to Open Dcor Schedule   | All Day   | <a href="#">Edit Schedule</a> |                               |
| Enable DTMF Open Door   | <input checked="" type="checkbox"/>   |                               |                               |
| <div>Save</div>   |   |                               |                               |

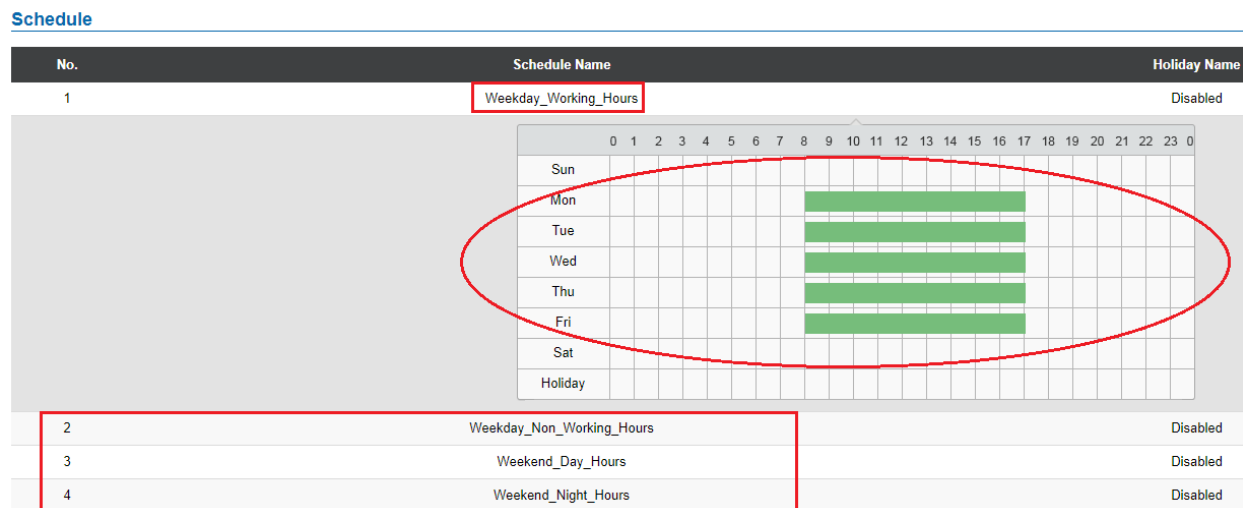
**NOTES:**

- Maximum 4 different “Schedule” can be configured.
- “Doorbell” Call Number or IP address must be configured in related “Schedule”.
- The priority order of schedule is “Schedule 1, 2, 3, 4”. The device will first check and verify current time fits in “Schedule 1”, if yes it will dial out using the configured number in Number 1; if not it will check “Schedule 2” and dial out using the configured number in Number 2 if result matched, and continue to do such checking and verification in loop till end.

For this feature to work properly, customers also need to pre-configure the “Schedule” accordingly:



| No. | Schedule Name             | Holiday Name | Detail | Edit |
|-----|---------------------------|--------------|--------|------|
| 1   | Weekday_Working_Hours     | Disabled     |        |      |
| 2   | Weekday_Non_Working_Hours | Disabled     |        |      |
| 3   | Weekend_Day_Hours         | Disabled     |        |      |
| 4   | Weekend_Night_Hours       | Disabled     |        |      |
| 5   | schedule5                 | Disabled     |        |      |
| 6   | schedule6                 | Disabled     |        |      |
| 7   | schedule7                 | Disabled     |        |      |
| 8   | schedule8                 | Disabled     |        |      |
| 9   | schedule9                 | Disabled     |        |      |
| 10  | schedule10                | Disabled     |        |      |



| No. | Schedule Name             | Holiday Name |
|-----|---------------------------|--------------|
| 1   | Weekday_Working_Hours     | Disabled     |
| 2   | Weekday_Non_Working_Hours | Disabled     |
| 3   | Weekend_Day_Hours         | Disabled     |
| 4   | Weekend_Night_Hours       | Disabled     |

## • Functionality

This feature enhancement is implemented based on feedback from field. Customers want doorbell call to directed to different extensions or IP address based on different time schedule.

For example, Weekly Office Hour to ring at Front Desk; Off office hour ring at person in charge, etc.

This new feature helps to resolve customers with such requirement.

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

- **GDS3702 User Manual:**  
[http://www.grandstream.com/sites/default/files/Resources/GDS3702\\_UserManual.pdf](http://www.grandstream.com/sites/default/files/Resources/GDS3702_UserManual.pdf)
- **GDS3705 User Manual:**  
[http://www.grandstream.com/sites/default/files/Resources/GDS3705\\_UserManual.pdf](http://www.grandstream.com/sites/default/files/Resources/GDS3705_UserManual.pdf)
- **HOW-TO Guide**  
<http://www.grandstream.com/support/resources/?title=GDS3702>  
<http://www.grandstream.com/support/resources/?title=GDS3705>
- **GDMS**  
<https://www.grandstream.com/products/device-management/gdms/product/gdms>

## FIRMWARE VERSION 1.0.3.10

### PRODUCT NAME

GDS3705 (*HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B, 3.0A, 3.1A, 3.2A*)

### DATE

03/28/2022

### SUMMARY OF UPDATE

This firmware of GDS3705 is mainly for bug fixes, feature enhancement, and new HW support.

**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

| HW Version            | FW  | Comments   |
|-----------------------|-----|--|
| GDS3705 HW1.1A        | YES |  |
| GDS3705 HW1.2A        | YES |  |
| GDS3705 HW1.3A        | YES |  |
| GDS3705 HW1.4A        | YES | FW1.0.0.20 as Initial Version for this HW version, not able to downgrade |
| GDS3705 HW1.4B        | YES | FW1.0.0.20 as Initial Version for this HW version, not able to downgrade |
| GDS3705 HW3.0A        | YES |  |
| GDS3705 <b>HW3.1A</b> | YES | FW1.0.1.21 as Initial Version for this HW version, not able to downgrade |
| GDS3705 <b>HW3.2A</b> | YES | FW1.0.1.21 as Initial Version for this HW version, not able to downgrade |

## BUG FIX

- Fixed system health alert enabled but device will not trigger email alert in probability after reboot.
- Fixed system health alert interval option is invalid.
- Fixed system health alert email only contains the info of sip account.
- Fixed alarm triggered but device failed to send out email.
- Fixed “Disable SIP NOTIFY Authentication” needs reboot to take effect.
- Fixed GDMS: device should not reboot during call
- Fixed the wrong prompt when device is saving data.
- Fixed default value of HTTP method is POST.
- Fixed doorbell value set to “0” cannot be saved.
- Fixed swiping legal card in unauthorized schedule will trigger both Non-scheduled Access Alarm and Non-authorized RFID Card Access Alarm (this one should not be triggered).
- Fixed login error prompt incorrect.
- Fixed DUT not sending out system health alert after revise/update SIP account information.
- Fixed non-scheduled access not logged in event log.
- Fixed when “Disable Keypad SIP Number Dialing” enabled, device cannot open door when private PIN is more than 9 digits.
- Fixed non-scheduled access alarm call can be cancelled by pressing the doorbell key.
- Fixed some parameters not able to configure successfully via GDMS.
- Fixed when set DI\_1 to abnormal door control and DI\_2 disabled, DI\_2 still has door1/door2 displayed.
- Fixed group name more than 63 characters should be able to be chopped and saved.
- Fixed GDMS templated value not matching webUI value not updated.
- Fixed wrong default value of “Disable SIP NOTIFY Authentication”, make it consistent with all devices
- Fixed device initial response to RFID/PIN very slow after reboot or idle for a while.
- Fixed the ringing timeout P value in GDMS template is wrong.
- Fixed alarm triggered but device not sending alarm email to “Alarm-To Email Address 2”
- Fixed enable whitelist the device will lose key tone after reject the call by replying 486.
- Fixed device reboot during DTMF open door performance testing.
- Fixed device cannot apply config file via UCM Zero Config.
- Fixed using custom certificate would fail the upgrade.
- Fixed wrong prompt when configure/save a holiday name already exist.



## ENHANCEMENT

- Added TR069/GDMS support

## 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**

- **N/A**

## **NEW P-VALUE**

- **N/A**

## NEW FEATURES OVERVIEW

This section lists major new features or improvement and advise customers how to use them.

### TR069/GDMS SUPPORT

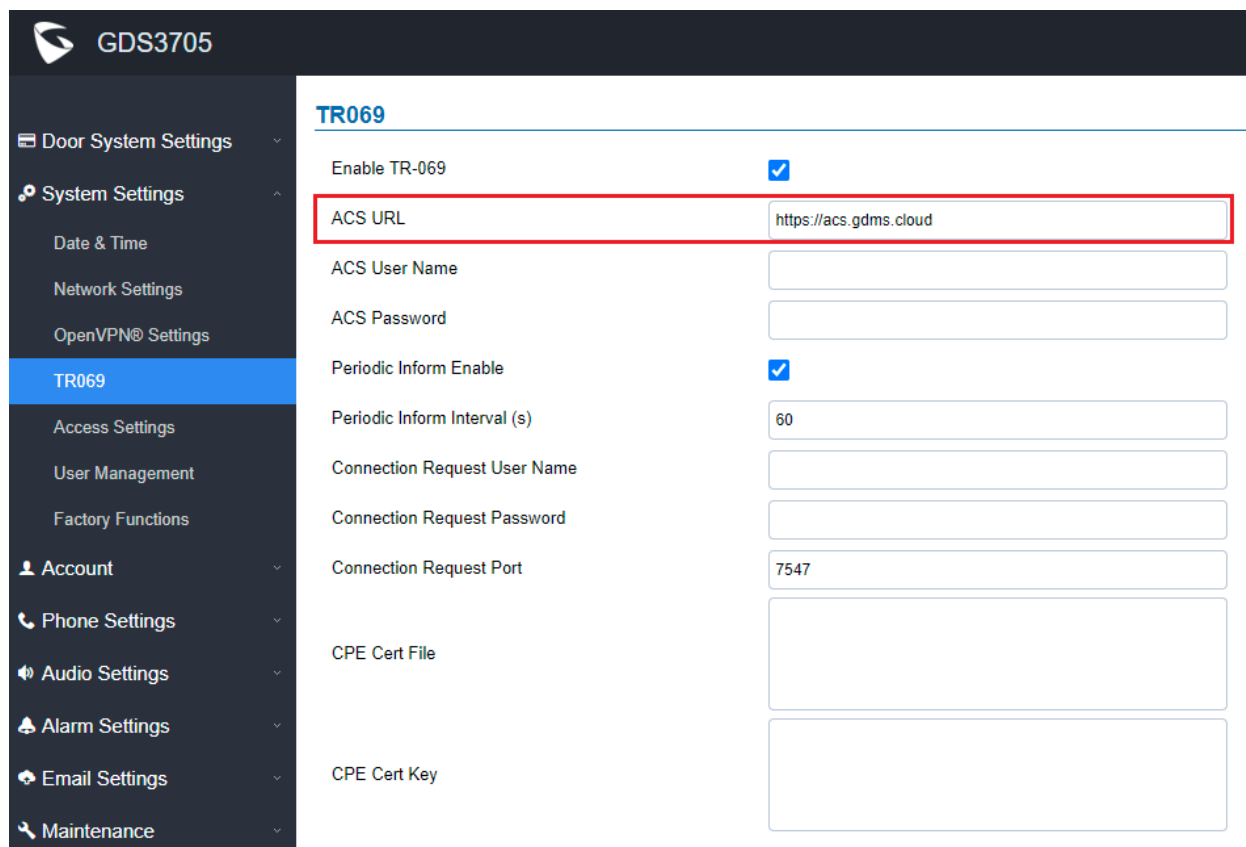
This new feature is implemented so the GDS3705 can be configured and provisioned via TR069/GDMS.

- **Functionality**

When enabled and configured, the GDS3705 will be configured and provisioned via TR069/GDMS.

- **Web Configuration**

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



The screenshot shows the GDS3705 web UI. On the left is a sidebar menu with options: Door System Settings, System Settings (expanded), Date & Time, Network Settings, OpenVPN® Settings, TR069 (selected), Access Settings, User Management, Factory Functions, Account, Phone Settings, Audio Settings, Alarm Settings, Email Settings, and Maintenance. The main content area is titled 'TR069' and contains the following settings:

|                              |   |
|------------------------------|---|
| Enable TR-069                | <input checked="" type="checkbox"/>                 |
| ACS URL                      | <input type="text" value="https://acs.gdms.cloud"/> |
| ACS User Name                | <input type="text"/>                                |
| ACS Password                 | <input type="password"/>                            |
| Periodic Inform Enable       | <input checked="" type="checkbox"/>                 |
| Periodic Inform Interval (s) | <input type="text" value="60"/>                     |
| Connection Request User Name | <input type="text"/>                                |
| Connection Request Password  | <input type="password"/>                            |
| Connection Request Port      | <input type="text" value="7547"/>                   |
| CPE Cert File                | <input type="text"/>                                |
| CPE Cert Key                 | <input type="text"/>                                |

If service providers support TR069 provisioning, or users have account of GDMS service, the GDS3705 can be configured via using related configuration template in the TR069 server or GDMS server side, then provisioning it over the Internet (Cloud Service).

Details please check out GDMS:

<https://www.grandstream.com/products/device-management/gdms/product/gdms>

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

- **GDS3705 User Manual:**  
[http://www.grandstream.com/sites/default/files/Resources/GDS3705\\_UserManual.pdf](http://www.grandstream.com/sites/default/files/Resources/GDS3705_UserManual.pdf)
- **HOW-TO Guide**  
<http://www.grandstream.com/support/resources/?title=GDS3705>
- **GDMS**  
<https://www.grandstream.com/products/device-management/gdms/product/gdms>

## FIRMWARE VERSION 1.0.1.21

### PRODUCT NAME

GDS3705 (HW Supported: 1.1A, 1.2A, 1.3A, 1.4A, 1.4B, 3.0A, 3.1A)

### DATE

12/10/2021

### SUMMARY OF UPDATE

This firmware of GDS3705 is mainly for feature enhancement, bug fixes and new HW support.

**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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW3.0A | YES | FW1.0.1.21 as Initial Version for this HW version |
| GDS3705 HW3.1A | YES | FW1.0.1.21 as Initial Version for this HW version |

### BUG FIX

- 3CX IOT: fixed not sending REGISTER to configured port in SIP Server field when using STUN
- Fixed changing access mode to HTTPS with port 80 will be saved which should not
- Fixed no alarm email when "Non-authorized RFID Card Access Alarm" enabled
- Fixed DTMF door opening performance a while will sometimes cause the device failing to send registration to server and reboot required to recover.

## ENHANCEMENT

- Added HW3.0A, HW3.1A support. (**The initial firmware is 1.0.1.21 and NOT able to downgradable**)
- Cisco WebEx IOT: Added Web UI Option “SIP URI Scheme When Using TLS”
- Cisco WebEx IOT: Added Web UI Option “Support SIP Instance ID”
- Added support for configurable keypad blue light On/Off.
- Added unauthorized card swiped on wired external 3<sup>rd</sup> party Wiegand reader will also have alert message in event Log
- Increased Whitelist Number to maximum 200 in each Account
- Added prompt “Alarm Schedule Name” and “Alarm Action Profile Name” cannot be blank.
- 3CX IOT: Support “Add MAC in User-Agent”
- 3CX IOT: Added “Codec Negotiation Priority” configuration
- Added option to choose HTTP method to either GET or POST request
- Added error prompt if illegal port value is set to web access

## 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

```
GET:[http|https]://<servername>/goform/config?cmd=get&type=sip
SET:[http|https]://<servername>/goform/config?cmd=set&P2329=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P2429=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P2529=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P2629=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P288=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P489=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P589=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P689=<value>
```

```
GET:[http|https]://<servername>/goform/config?cmd=get&type=door
SET:[http|https]://<servername>/goform/config?cmd=set& Pxxx =<value>
```

```
GET:[http|https]://<servername>/goform/config?cmd=get&type=sip
SET:[http|https]://<servername>/goform/config?cmd=set& Pxxx =<value>
```

```
GET:[http|https]://<servername>/goform/config?cmd=get&type=log
SET:[http|https]://<servername>/goform/config?cmd=set& P15553 =<value>
```

## NEW P-VALUE

|        |   |
|--------|---|
| P2329  | Account.Account_1.SIP_URI_Scheme_When_Using_TLS<br>(Value: 0 / 1; 0: sip 1: sips)                           |
| P2429  | Account.Account_2.SIP_URI_Scheme_When_Using_TLS<br>(Value: 0 / 1; 0: sip 1: sips)                           |
| P2529  | Account.Account_3.SIP_URI_Scheme_When_Using_TLS<br>(Value: 0 / 1; 0: sip 1: sips)                           |
| P2629  | Account.Account_4.SIP_URI_Scheme_When_Using_TLS<br>(Value: 0 / 1; 0: sip 1: sips)                           |
| P288   | Account.Account_1.Support_SIP_Instance_ID<br>(Value: 0 / 1; 0: Disable 1: Enable)                           |
| P489   | Account.Account_2.Support_SIP_Instance_ID<br>(Value: 0 / 1; 0: Disable 1: Enable)                           |
| P589   | Account.Account_3.Support_SIP_Instance_ID<br>(Value: 0 / 1; 0: Disable 1: Enable)                           |
| P689   | Account.Account_4.Support_SIP_Instance_ID<br>(Value: 0 / 1; 0: Disable 1: Enable)                           |
| P15500 | Door_System_Settings.Basic_Settings.Enable_Bule_Keypad_Light<br>(Value: 0 / 1; 0: Disable 1: Enable)        |
| P15501 | Door_System_Settings.Basic_Settings.Bule_Keypad_Light_Start_Time<br>(Value: String; Example: 125900)        |
| P15502 | Door_System_Settings.Basic_Settings.Bule_Keypad_Light_End_Time<br>(Value: String; Example: 145930)          |
| P26061 | Account.Account1.Add_MAC_in_User-Agent<br>(Value: 0 / 1 / 2; 0: No 1: Yes except REGISTER 2:Yes to all SIP) |
| P26161 | Account.Account2.Add_MAC_in_User-Agent<br>(Value: 0 / 1 / 2; 0: No 1: Yes except REGISTER 2:Yes to all SIP) |
| P26261 | Account.Account3.Add_MAC_in_User-Agent<br>(Value: 0 / 1 / 2; 0: No 1: Yes except REGISTER 2:Yes to all SIP) |
| P26361 | Account.Account4.Add_MAC_in_User-Agent<br>(Value: 0 / 1 / 2; 0: No 1: Yes except REGISTER 2:Yes to all SIP) |
| P29061 | Account.Account1.Codec_Negotiation_Priority<br>(Value: 0 / 1; 0: Caller 1: Callee)                          |
| P29161 | Account.Account2.Codec_Negotiation_Priority<br>(Value: 0 / 1; 0: Caller 1: Callee)                          |
| P29261 | Account.Account3.Codec_Negotiation_Priority<br>(Value: 0 / 1; 0: Caller 1: Callee)                          |
| P29361 | Account.Account4.Codec_Negotiation_Priority<br>(Value: 0 / 1; 0: Caller 1: Callee)                          |
| P15553 | Maintenance.Event.Notification.HTTP_Method<br>(Value: 0 / 1; 0: POST 1: GET)                                |



## NEW FEATURES OVERVIEW

This section lists major new features or improvement and advise customers how to use them.

### CISCO WEBEX COMPATABLE

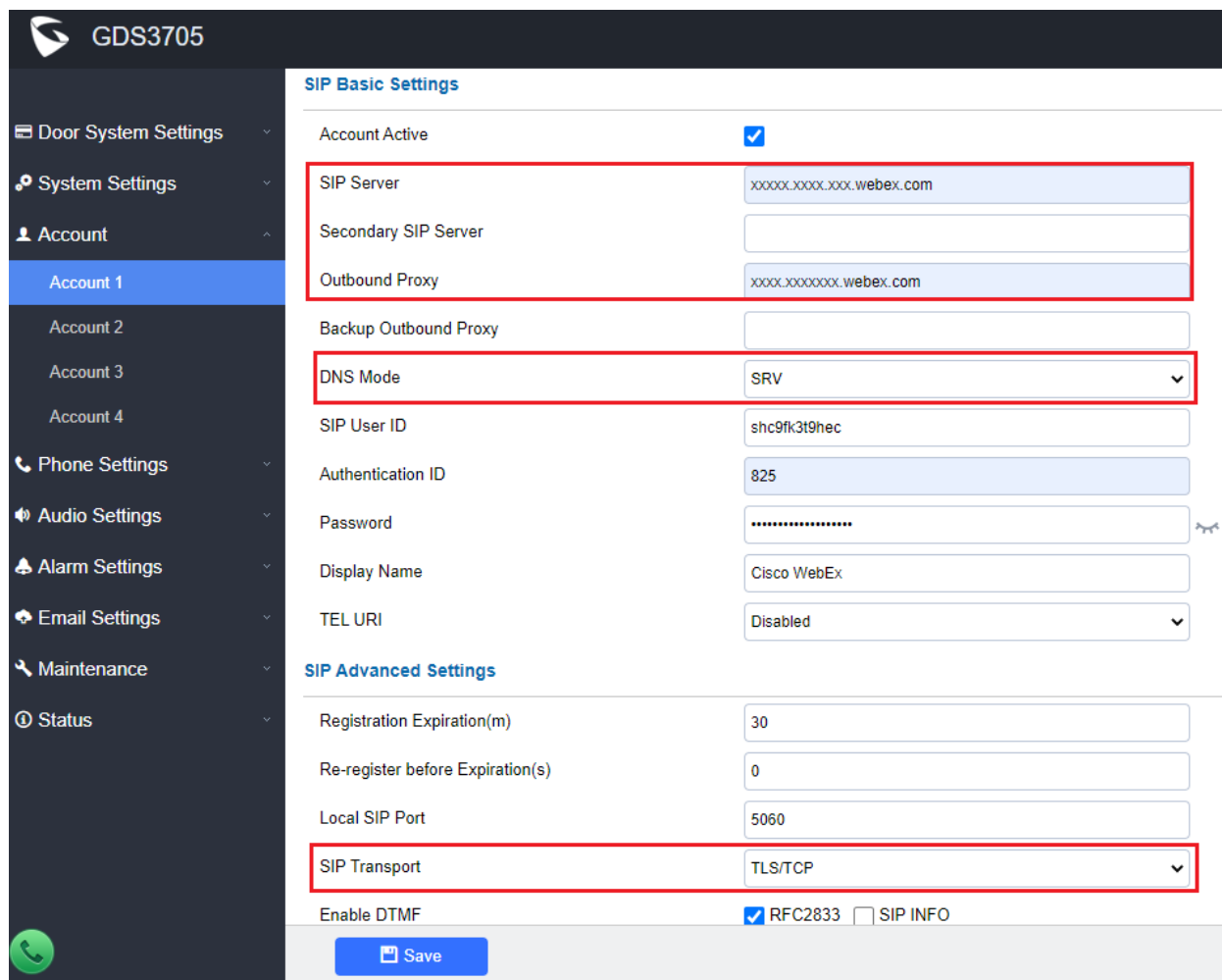
This new feature is implemented so the GDS3705 can be running in Cisco WebEx Service.

- Functionality**

When enabled and configured this feature, the GDS3705 will register and work in Cisco WebEx Service.

- Web Configuration**

This setup can be found under device web UI → Account → Account X:



**GDS3705**

**SIP Basic Settings**

Account Active ☒

SIP Server

Secondary SIP Server

Outbound Proxy

Backup Outbound Proxy

DNS Mode

SIP User ID

Authentication ID

Password

Display Name

TEL URI

**SIP Advanced Settings**

Registration Expiration(m)

Re-register before Expiration(s)

Local SIP Port

SIP Transport

Enable DTMF ☒ RFC2833 ☐ SIP INFO

**Save**

**GDS3705**

- Door System Settings
- System Settings
- Account
  - Account 1
  - Account 2
  - Account 3
  - Account 4
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

SIP Transport TLS/TCP ▼

Enable DTMF ☒ RFC2833 ☐ SIP INFO

DTMF Payload Type 101

Enable Keep Alive ☐

Unregister On Reboot ☒

NAT Traversal Auto ▼

Enable SRTP Enable but Not Forced ▼

Special Feature Standard ▼

Outbound Proxy Mode In Route ▼

Validate Incoming Messages ☐

Enable RTCP Disabled ▼

Accept Incoming SIP from Proxy Only ☐

SIP URI Scheme When Using TLS sip ▼

Support SIP Instance ID ☒

**Custom SIP Headers**

Use P-Access-Network-Info Header ☒

Add MAC in User-Agent No ▼

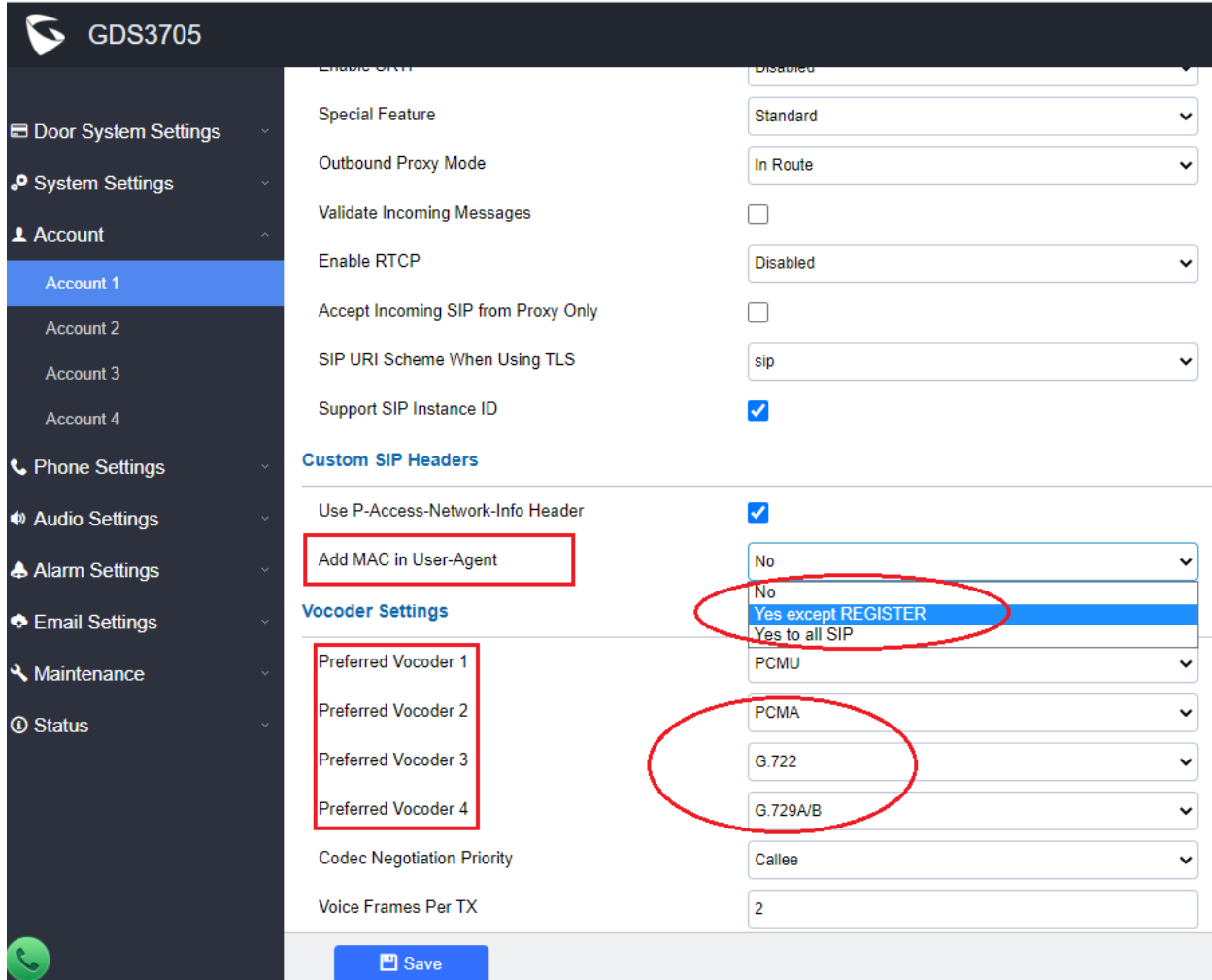
Save

If user has Cisco WebEx service, the GDS3705 can be configured using above screenshots as reference, so the GDS3705 can be registered and running in Cisco WebEx Service.

### 3CX IOT COMPATABLE

- **Web Configuration**

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



The screenshot shows the web configuration interface for a GDS3705 device. The left sidebar contains a menu with options: Door System Settings, System Settings, Account (selected), Account 1 (highlighted), Account 2, Account 3, Account 4, Phone Settings, Audio Settings, Alarm Settings, Email Settings, Maintenance, and Status. The main content area displays various settings for the selected account.

**General Settings:**

- Enable SIP: Disabled
- Special Feature: Standard
- Outbound Proxy Mode: In Route
- Validate Incoming Messages: ☐
- Enable RTCP: Disabled
- Accept Incoming SIP from Proxy Only: ☐
- SIP URI Scheme When Using TLS: sip
- Support SIP Instance ID: ☒

**Custom SIP Headers:**

- Use P-Access-Network-Info Header: ☒
- Add MAC in User-Agent: ☐ (highlighted with a red box)

**Vocoder Settings:**

- Preferred Vocoder 1: (highlighted with a red box)
- Preferred Vocoder 2: (highlighted with a red box)
- Preferred Vocoder 3: (highlighted with a red box)
- Preferred Vocoder 4: (highlighted with a red box)
- Codec Negotiation Priority: Callee
- Voice Frames Per TX: 2

**Red Circles and Highlight:**

- A red circle highlights the "Yes except REGISTER" option in the "Add MAC in User-Agent" dropdown menu.
- A red circle highlights the "G.722" and "G.729A/B" options in the "Preferred Vocoder" dropdown menus.

A "Save" button is located at the bottom right of the configuration area.

- **Functionality**

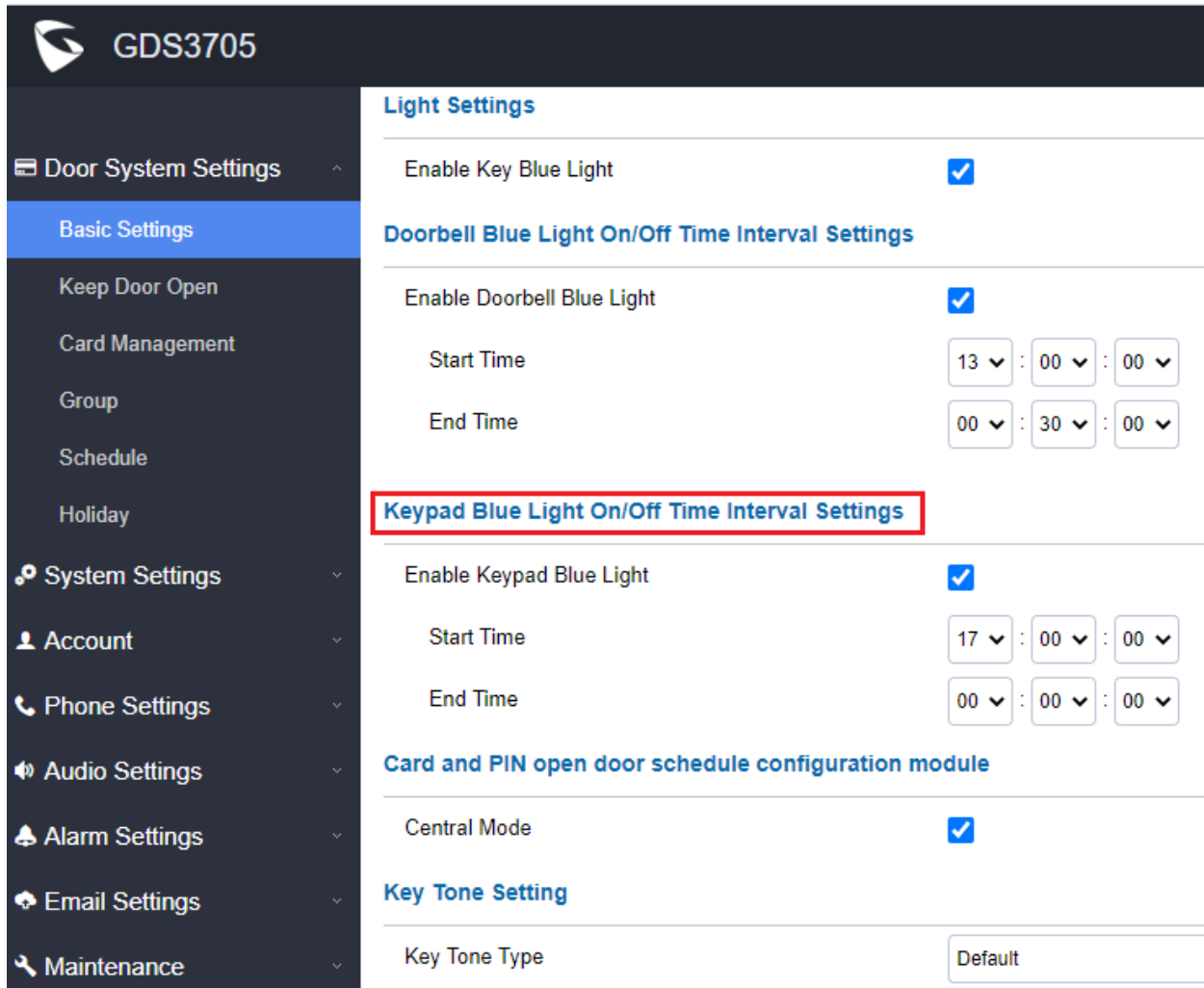
With this feature implemented, customers can conveniently select and configure related parameters so the GDS3705 can be registered and running in 3CX Solution, or be provisioned by 3CX Server.

The above screenshot of configuration is for 3CX configuration reference only.

## CONFIGURABLE KEYPAD BLUE LIGHT ON/OFF

- Web Configuration**

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



**GDS3705**

**Door System Settings**

- Basic Settings
- Keep Door Open
- Card Management
- Group
- Schedule
- Holiday

**System Settings**

- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance

**Light Settings**

Enable Key Blue Light ☒

**Doorbell Blue Light On/Off Time Interval Settings**

Enable Doorbell Blue Light ☒

Start Time 13 : 00 : 00

End Time 00 : 30 : 00

**Keypad Blue Light On/Off Time Interval Settings**

Enable Keypad Blue Light ☒

Start Time 17 : 00 : 00

End Time 00 : 00 : 00

**Card and PIN open door schedule configuration module**

Central Mode ☒

**Key Tone Setting**

Key Tone Type Default

- Functionality**

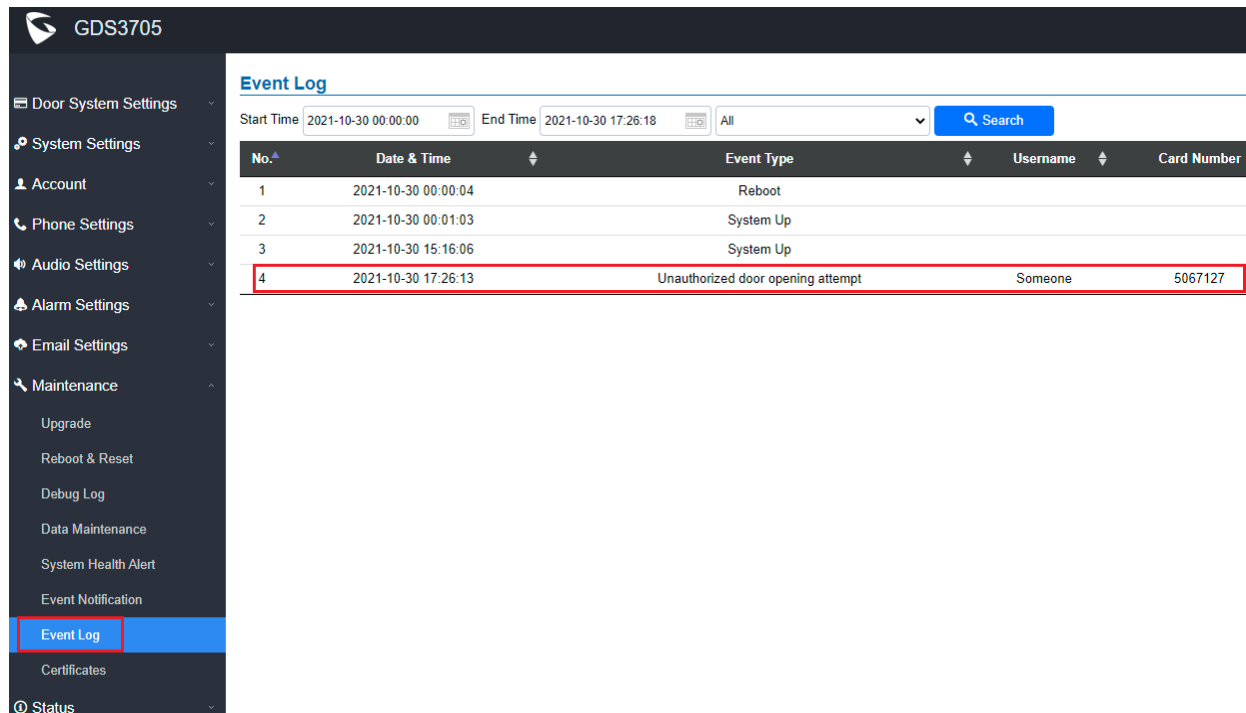
This feature enhancement is response to field request from customers.

By configure the keypad blue light ON/OFF based on specific time in a day, the GDS3705 can light up the keypad using blue LED light in the dark or night environment, so the visitors can clearly see the keypad and press the keypad to call or input PIN to open door without making mistakes.

## UNAUTHORIZED CARD SWIPE (WIEGAND READER) ALERTED IN EVENT LOG

- **Web Configuration**

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



**GDS3705**

**Event Log**

Start Time: 2021-10-30 00:00:00 End Time: 2021-10-30 17:26:18 All Search

| No. | Date & Time         | Event Type                        | Username | Card Number |
|-----|---------------------|-----------------------------------|----------|-------------|
| 1   | 2021-10-30 00:00:04 | Reboot                            |          |             |
| 2   | 2021-10-30 00:01:03 | System Up                         |          |             |
| 3   | 2021-10-30 15:16:06 | System Up                         |          |             |
| 4   | 2021-10-30 17:26:13 | Unauthorized door opening attempt | Someone  | 5067127     |

**Maintenance**

- Upgrade
- Reboot & Reset
- Debug Log
- Data Maintenance
- System Health Alert
- Event Notification
- Event Log**
- Certificates
- Status

- **Functionality**

This feature is implemented based on feedback from customers.

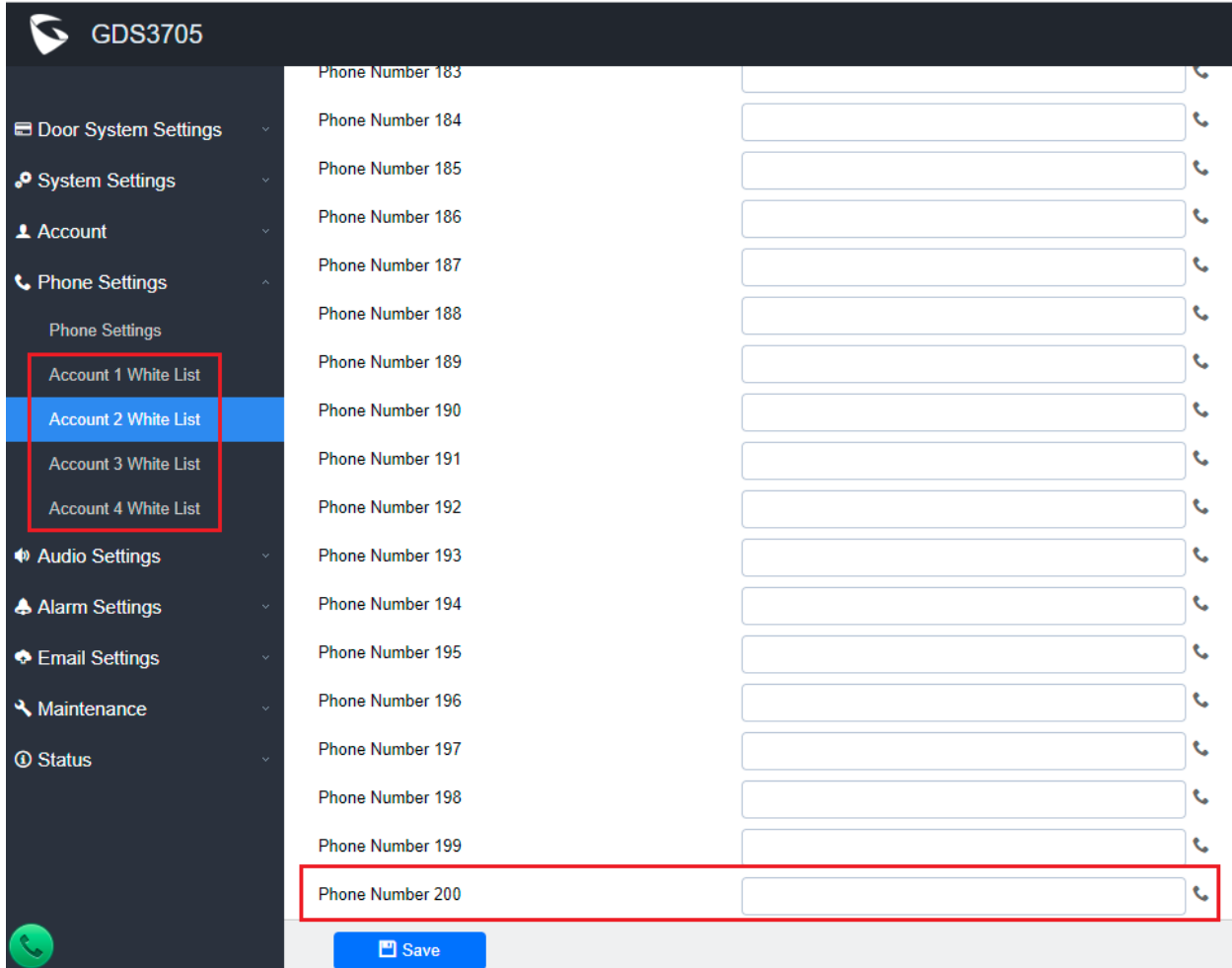
This feature previously only works when RFID card swiped at the GDS3705. If 3<sup>rd</sup> party card reader installed and wired into the Wiegand port of GDS3705, the illegal card swiped would not be able to be logged in the Event Log.

With this feature implemented, the illegal RFID card swiped via the 3<sup>rd</sup> party card reader will also be logged and alerted in the Event Log of the GDS3705, as shown in above screenshot.

## INCREASED WHITELIST IN EACH ACCOUNT

- **Web Configuration**

This option can be found under device web UI → Phone Settings → Account X White List:



| Phone Number     | Input Field          | Delete Icon |
|------------------|----------------------|-------------|
| Phone Number 183 | <input type="text"/> | 🗑️          |
| Phone Number 184 | <input type="text"/> | 🗑️          |
| Phone Number 185 | <input type="text"/> | 🗑️          |
| Phone Number 186 | <input type="text"/> | 🗑️          |
| Phone Number 187 | <input type="text"/> | 🗑️          |
| Phone Number 188 | <input type="text"/> | 🗑️          |
| Phone Number 189 | <input type="text"/> | 🗑️          |
| Phone Number 190 | <input type="text"/> | 🗑️          |
| Phone Number 191 | <input type="text"/> | 🗑️          |
| Phone Number 192 | <input type="text"/> | 🗑️          |
| Phone Number 193 | <input type="text"/> | 🗑️          |
| Phone Number 194 | <input type="text"/> | 🗑️          |
| Phone Number 195 | <input type="text"/> | 🗑️          |
| Phone Number 196 | <input type="text"/> | 🗑️          |
| Phone Number 197 | <input type="text"/> | 🗑️          |
| Phone Number 198 | <input type="text"/> | 🗑️          |
| Phone Number 199 | <input type="text"/> | 🗑️          |
| Phone Number 200 | <input type="text"/> | 🗑️          |

**Save**

- **Functionality**

This feature enhancement is based on customers from field.

Some customers integrated GDS3705 with IPPBX and interconnected with POT Lines, so the visitors can call the user's cell phone number asking remote open door if user is not at the location.

Previously the White List has limitation so the list will full very quickly if the location is an apartment building. Now the list is boosted to maximum 200 in each Account. This will solve customer's problem and make the application solution feasible.

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

- **GDS3705 User Manual:**  
[http://www.grandstream.com/sites/default/files/Resources/GDS3705\\_UserManual.pdf](http://www.grandstream.com/sites/default/files/Resources/GDS3705_UserManual.pdf)
- **HOW-TO Guide**  
<http://www.grandstream.com/support/resources/?title=GDS3705>

## FIRMWARE VERSION 1.0.1.16

### PRODUCT NAME

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

### DATE

03/12/2021

### SUMMARY OF UPDATE

This firmware update of GDS3705 is mainly for feature enhancement and bug fixes.

**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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### BUG FIX

- Fixed half time zone the daylight saving time is invalid.
- Fixed unauthorized card swiped at Wiegand reader the event log not display related event.
- Fixed keypad locked if doorbell pressed or wrong PIN entered quickly too many times.
- Fixed NAPRT not used in DNS/SRV mode.
- Fixed call failure when disable key blue light with more than 6 second “no key input timeout” setting.
- Fixed doorbell audio played during the call.
- Fixed in Data Maintenance Mode, import the exported file will fail with prompt “illegal certificate”.
- Fixed error display issue when the certificate imported is valid for more than 2038.
- Fixed device reboot when import unmodified certificates in XML.
- Fixed device not check all PAI to match with whitelist number (ITSP Telefonica).
- Fixed cannot dial using Virtual Number.



## ENHANCEMENT

- Added Secure Open Door with GDS37xx/GSC3570 Pairing and door lock/strike wired to GSC3570 Alarm\_Out port and controlled by GSC3570 (located inside) instead of GDS37xx (located outside).
- Added pairing with GSC3570 open door without SIP call.
- Added Card Number limitation with maximum number to be **2147483647**.
- Added Web Relay ON/OFF URL configuration field for some 3<sup>rd</sup> party Web Relay Door Controlling.
- Added configurable Scheduled Auto Reboot (to keep a healthy system running).
- Added SIP Account Active feature.
- Added ability to disable P-Access-Network-Info Header for ITSP (e.g.: Telefonica).
- Added support to trigger Alarm Action when illegal card swiped.
- Added support to allow IP addresses in whitelist to call the GDS37xx and bypass the setting of "Accept Incoming SIP from Proxy Only"
- Added protection schema to prevent device reboot during a call.
- Added "GMT-3 (Argentina, Uruguay, Brasilia, San Paulo)" in time zone settings.
- Added "GMT-3:30 (Newfoundland)" in time zone settings.
- Enhanced webUI password display with security and convenience.
- Improved webUI error login prompt message.
- Enhanced Card Management / Private PIN display feature for better administration.
- Improved HTTP API Open Door by processing default value if missed in the API.
- Modified tips at Card Management Page
- Enhanced webUI password display with security and convenience.

## 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

- **P15540/ P15541/ P15542**  
*GET:[http|https]://<servername>/goform/config?cmd=get&type=reset\_reboot*  
*SET:[http|https]://<servername>/goform/config?cmd=set&P15540=<value>*  
*SET:[http|https]://<servername>/goform/config?cmd=set&P15541=<value>*  
*SET:[http|https]://<servername>/goform/config?cmd=set&P15542=<value>*
- **P15440/P15441/P15447/P15442/P15443/P15444/P15445/P15446**  
*GET:[http|https]://<servername>/goform/config?cmd=get&type=door*  
*SET:[http|https]://<servername>/goform/config?cmd=set&Pxxx=<value>*
- **P15515/P15516**  
*GET:[http|https]://<servername>/goform/config?cmd=get&type=event*  
*SET:[http|https]://<servername>/goform/config?cmd=set&Pxxx=<value>*

## NEW P-VALUE

- P15540: Maintenance.Reboot\_Reset.Auto\_Reboot.Enable  
(value: 0:Disable; 1:Enable)
- P15541: Maintenance.Reboot\_Reset.Auto\_Reboot.Week  
(value: 0:Everyday 1:Sunday 2:Monday 3:Tuesday 4:Wednesday 5:Thursday 6:Friday 7:Saturday)
- P15542: Maintenance.Reboot\_Reset.Auto\_Reboot.Hour\_Min  
(time string, example: 14:20 ->1420 )
- P15440: Door\_System\_Settings. Basic\_settings.Door\_relay\_options  
(value: 0:local relay; 1:webrelay; 2:gsc3570 relay)
- P15441: Door\_System\_Settings. Basic\_settings.Webrelay\_ON\_URL  
(string, max.len=1024)
- P15447: Door\_System\_Settings. Basic\_settings. Webrelay\_OFF\_URL  
(string; max.len=1024)
- P15442: Door\_System\_Settings. Basic\_settings.Webrelay\_username  
(string; max.len=128)
- P15443: Door\_System\_Settings. Basic\_settings.Webrelay\_password  
(string; max.len=128)
- P15444: Door\_System\_Settings. Basic\_settings.gsc3570\_Account\_to\_choose  
(value: 1:acc1; 2:acc2; 3:aac3; 3:acc4)
- P15445: Door\_System\_Settings. Basic\_settings. gsc3570\_phone\_number  
(string; max.len=128)
- P15446: Door\_System\_Settings. Basic\_settings. gsc3570\_password  
(string; max.len=128)
- P15515: Alarm\_Settings.Alarm\_events\_config.Alarm\_config.Enable\_Nonauthorized\_RFID\_Card\_Access\_Alarm  
(value: 0:disable; 1:enable)
- P15516: Alarm\_Settings.Alarm\_events\_config.Alarm\_config.Alarm\_profile  
(value: 1-10: profile1-10)

## NEW FEATURES OVERVIEW

This section lists major new features or improvement and advise customers how to use them.

### PAIR WITH GSC3570 OPEN DOOR W/O SIP CALL

This new open door feature is a major enhancement to GDS37xx, but need to include GSC3570 paired to make it a whole solution. The GDS37xx/GSC3570 will be pairing together in LAN, and GDS37xx still controls the strike.

- **Functionality**

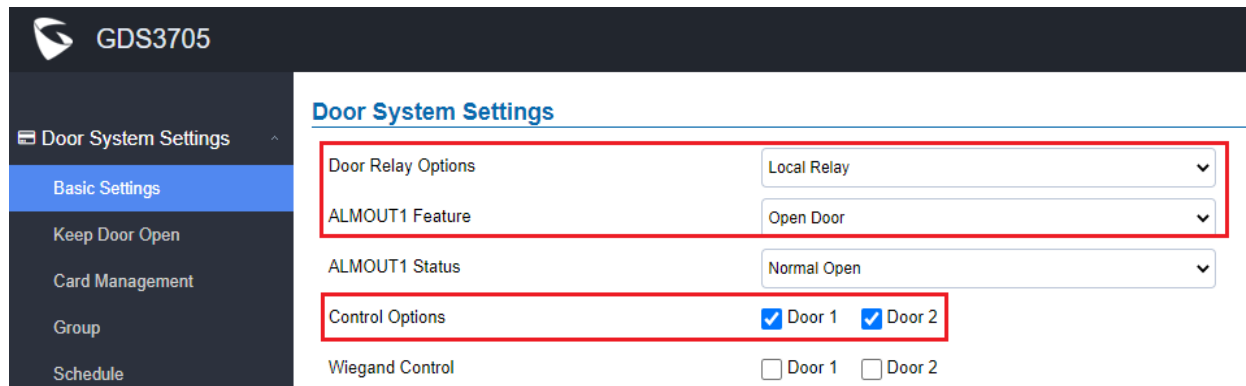
When enabled and configured this feature, the user will touch the GSC3570 and open the door directly via GDS37xx, without making SIP calls. This feature needs related matching GSC3570 firmware to work. The firmware required:

- **GSC3570: 1.0.5.9 or above**

- **Web Configuration**

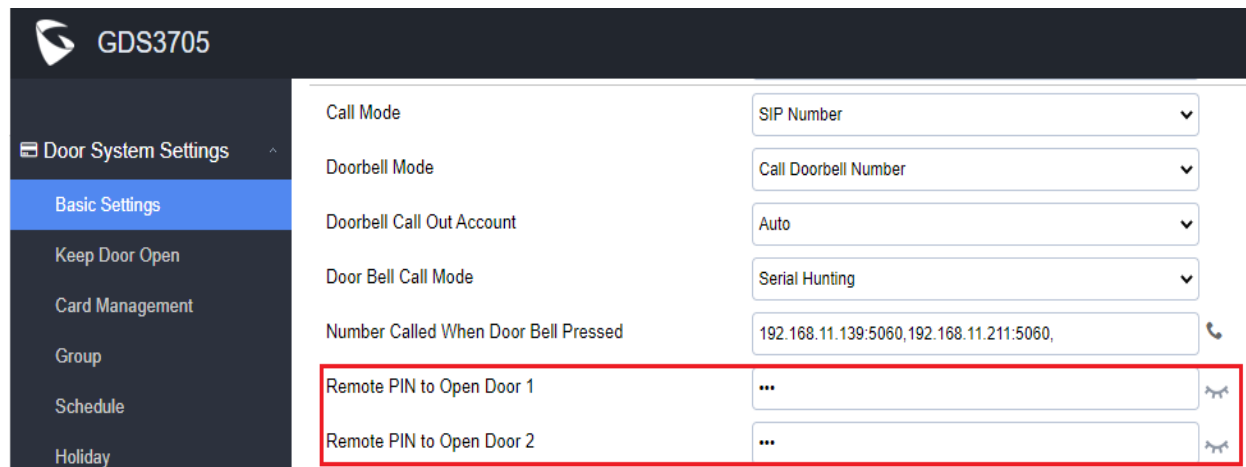
#### **GDS3705: (FW: 1.0.1.16 or above)**

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



The screenshot shows the 'Door System Settings' page for a GDS3705 device. The left sidebar contains a menu with 'Door System Settings' expanded, showing 'Basic Settings', 'Keep Door Open', 'Card Management', 'Group', and 'Schedule'. The main content area is titled 'Door System Settings' and contains several configuration options:

- Door Relay Options:** Local Relay (dropdown)
- ALMOUT1 Feature:** Open Door (dropdown)
- ALMOUT1 Status:** Normal Open (dropdown)
- Control Options:** ☒ Door 1 ☒ Door 2
- Wiegand Control:** ☐ Door 1 ☐ Door 2



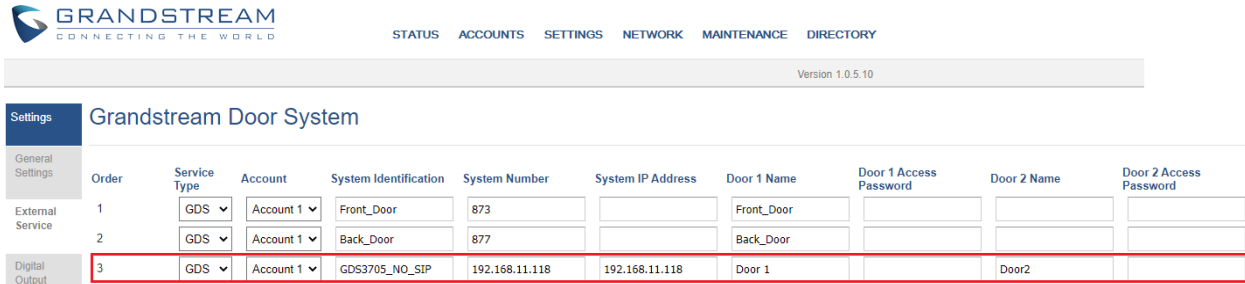
The screenshot continues the 'Door System Settings' page for a GDS3705 device. The left sidebar is the same as the previous screenshot. The main content area shows additional configuration options:

- Call Mode:** SIP Number (dropdown)
- Doorbell Mode:** Call Doorbell Number (dropdown)
- Doorbell Call Out Account:** Auto (dropdown)
- Door Bell Call Mode:** Serial Hunting (dropdown)
- Number Called When Door Bell Pressed:** 192.168.11.139:5060,192.168.11.211:5060, (text input with a call icon)
- Remote PIN to Open Door 1:** ... (text input with a lock icon)
- Remote PIN to Open Door 2:** ... (text input with a lock icon)

The GDS37xx is configured to control the relay/strike with “Door Relay Option” selected as “Local Relay”, where 1 door or 2 door used, depending on user’s configuration and installation.

### **GSC3570: (FW: 1.0.5.9 or above)**

The GSC3570 side also need to be configured according, like below:

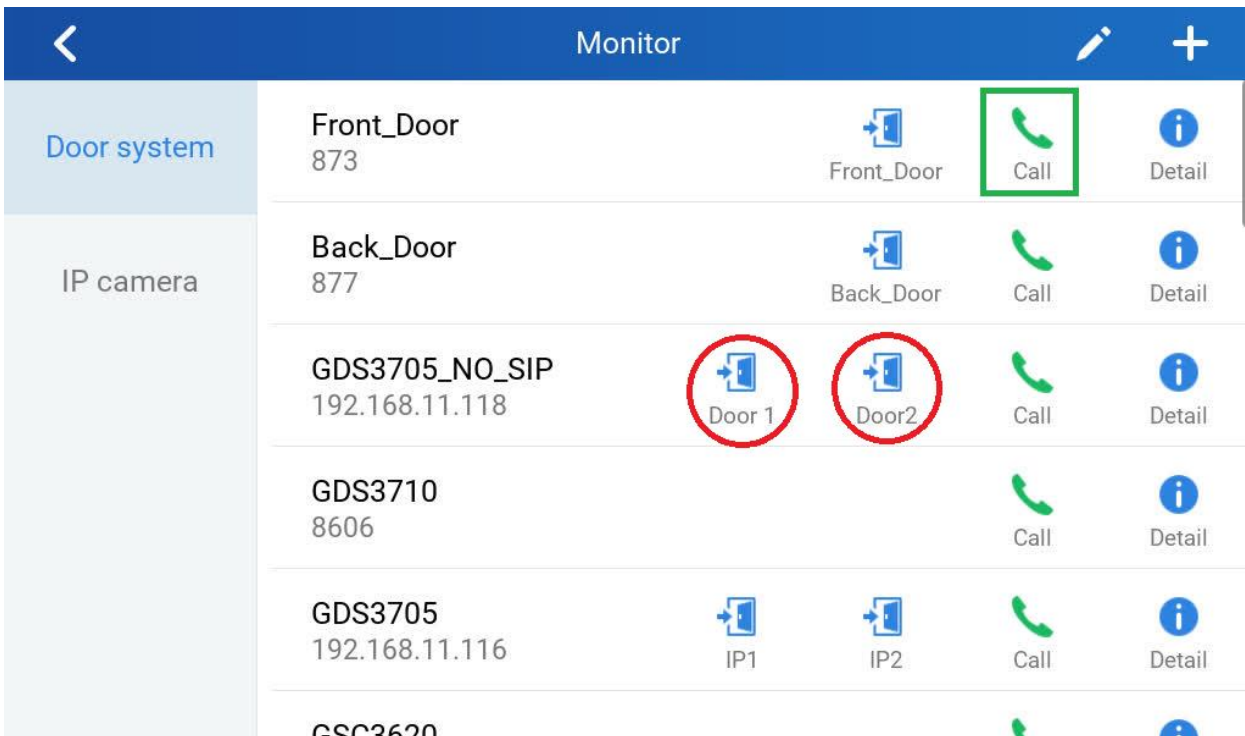


Grandstream Door System

| Order | Service Type | Account   | System Identification | System Number  | System IP Address | Door 1 Name | Door 1 Access Password | Door 2 Name | Door 2 Access Password |
|-------|--------------|-----------|-----------------------|----------------|-------------------|-------------|------------------------|-------------|------------------------|
| 1     | GDS          | Account 1 | Front_Door            | 873            |                   | Front_Door  |                        |             |                        |
| 2     | GDS          | Account 1 | Back_Door             | 877            |                   | Back_Door   |                        |             |                        |
| 3     | GDS          | Account 1 | GDS3705_NO_SIP        | 192.168.11.118 | 192.168.11.118    | Door 1      |                        | Door2       |                        |

In the “SETTINGS → External Service”, input the IP address of GDS37xx where the GSC3570 paired with, and input the correct PIN for open related remote doors. The PIN should match with GDS37xx related remote PIN to open door.

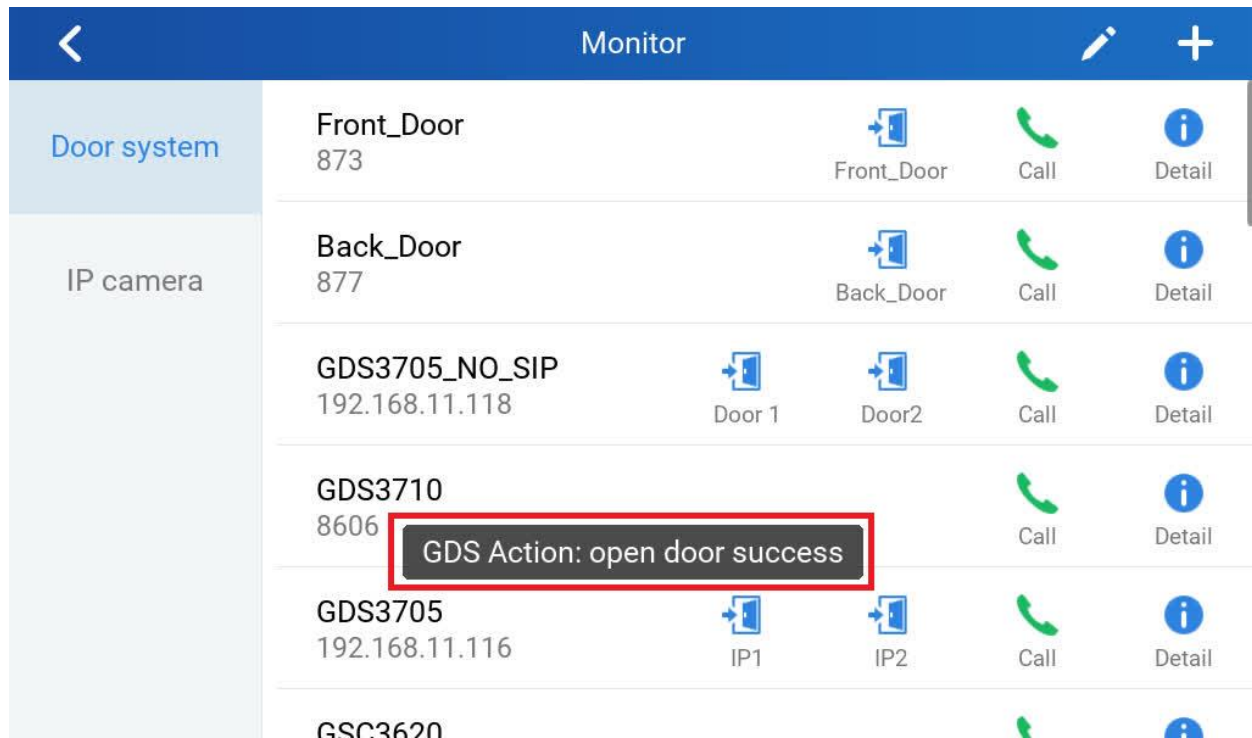
Once configured successfully, in the touch screen UI of GSC3570, press “Monitor”, select “Door system”, will see UI like below:



Monitor

| Category    | System Name    | System Number  | Door 1     | Door 2 | Call | Detail |
|-------------|----------------|----------------|------------|--------|------|--------|
| Door system | Front_Door     | 873            | Front_Door |        | Call | Detail |
| IP camera   | Back_Door      | 877            | Back_Door  |        | Call | Detail |
|             | GDS3705_NO_SIP | 192.168.11.118 | Door 1     | Door2  | Call | Detail |
|             | GDS3710        | 8606           |            |        | Call | Detail |
|             | GDS3705        | 192.168.11.116 | IP1        | IP2    | Call | Detail |
|             | GSC3620        |                |            |        | Call | Detail |

Select the related door where the GSC3570 controlled, in this example, the “GDS3705\_NO\_SIP” located at right corner of top line is the one configured. Press the icon of open door (red circled one) will pop up another UI like below when door opened successfully:



Press related “Door 1” or “Door 2” icon (two doors configured in this example), the GDS37xx will operate the strike and open the correspondent door accordingly.

If press the “Phone” icon (green square illustrated above), then the GSC3570 will make SIP phone call to the configured GDS37xx and open door remotely via SIP phone call like as before.

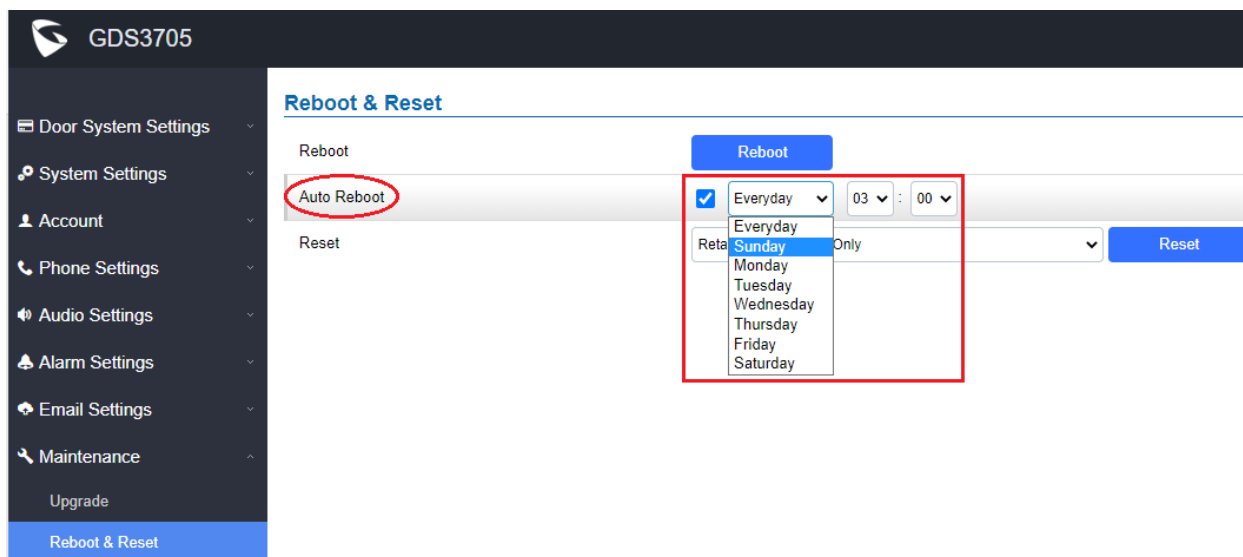
The application will help customers with installation scene where GSC3570 is located near Receptionist or related person, the user just use GSC3570 to operate GDS37xx to open door, without make a SIP phone call.

This application scene is good for hospital/clinic or senior house etc., environment where open door button or switch is NOT installed or wired, customer can just add a GSC3570 to open door from inside by related person (nurse or receptionist), to give convenience to their customers to come in or get out of the office or building.

## SCHEDULED AUTO REBOOT

- **Web Configuration**

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



- **Functionality**

With this feature implemented, customers can conveniently select a schedule to let the device reboot itself, per week or per day, to make a smooth and clean system, for the access control operation as well as to make sure the device is registered to SIP Proxy.

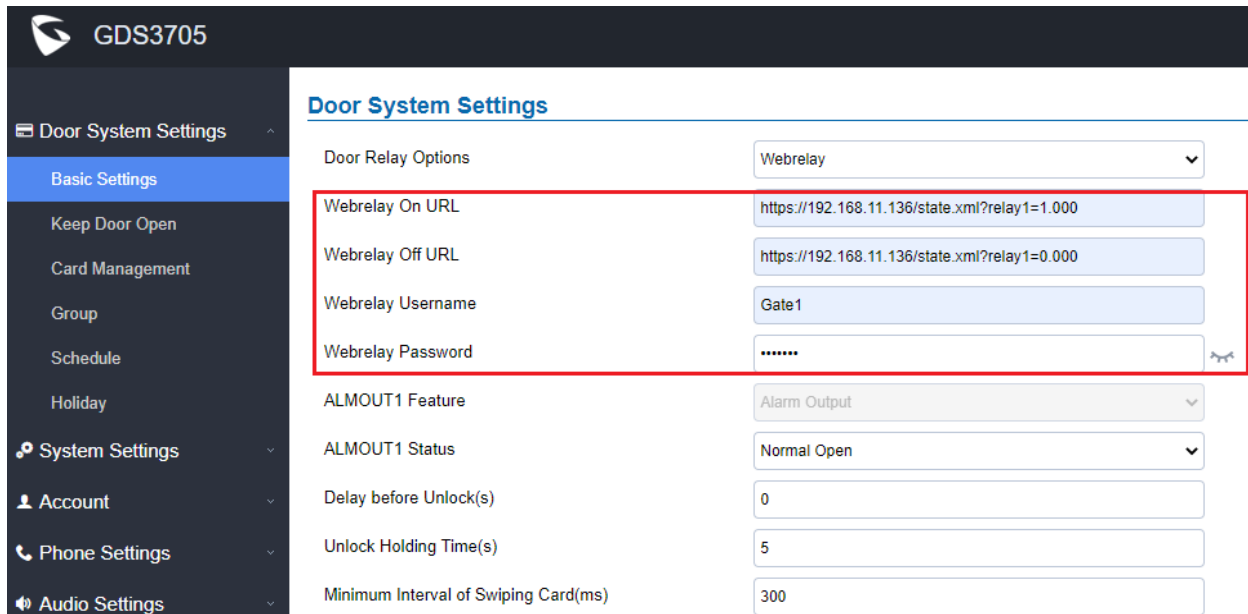
Before implement this feature, customers need to write their own scripts to reboot the device, or using SIP NOTIFY from SIP Server to reboot the device, or manually reboot the device when found the device lost registration to SIP Proxy.

Reliability is ensured by implement this new enhancement.

## ENHANCED OPEN DOOR VIA 3<sup>RD</sup> PARTY WEBRELAY WITH ON/OFF URL

- Web Configuration**

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



**GDS3705**

**Door System Settings**

- Door System Settings
  - Basic Settings**
  - Keep Door Open
  - Card Management
  - Group
  - Schedule
  - Holiday
- System Settings
- Account
- Phone Settings
- Audio Settings

**Door System Settings**

Door Relay Options: Webrelay

Webrelay On URL: <https://192.168.11.136/state.xml?relay1=1.000>

Webrelay Off URL: <https://192.168.11.136/state.xml?relay1=0.000>

Webrelay Username: Gate1

Webrelay Password: \*\*\*\*\*

ALMOUT1 Feature: Alarm Output

ALMOUT1 Status: Normal Open

Delay before Unlock(s): 0

Unlock Holding Time(s): 5

Minimum Interval of Swiping Card(ms): 300

- Functionality**

This feature enhancement is response to field request to integration with 3<sup>rd</sup> party Webrelay controller, to install the relay controller inside the build to enhance the security or apply in some industry application solution.

Now there are TWO Webrelay URL fields available, with On or Off URL command allowed or other usage URL command allowed. Also allow Username and Password configured if the 3<sup>rd</sup> party Webrelay requiring this security feature.

If some 3<sup>rd</sup> party Webrelay only support one URL command, then just leave another Off URL blank, or put whatever there as long as it is NOT a URL command.

- 3<sup>rd</sup> Party Webrelay**

When Webrelay is selected, customers need to continue configure the Webrelay IP address or domain name, together with credentials like Username and Password, as well as the URL commands used by the 3<sup>rd</sup> party Webrelay.

When legal open door event happened, the configured web relay will get the communication from GDS37xx, and will operate the strike to open door for the authenticated open door request. Or use that command to operate other industry application.

In web relay mode, the strike is wired to the web relay controller device.

The correct URL command, please refer to related 3<sup>rd</sup> party Webrelay User Manual or related documentation for details.

For more details about 3<sup>rd</sup> party Webrelay, please refer to below URL to get more information:

<https://www.controlbyweb.com/webrelay/>

*(Single/Dual/Quad, etc.)*

<https://www.barix.com/barionet/>

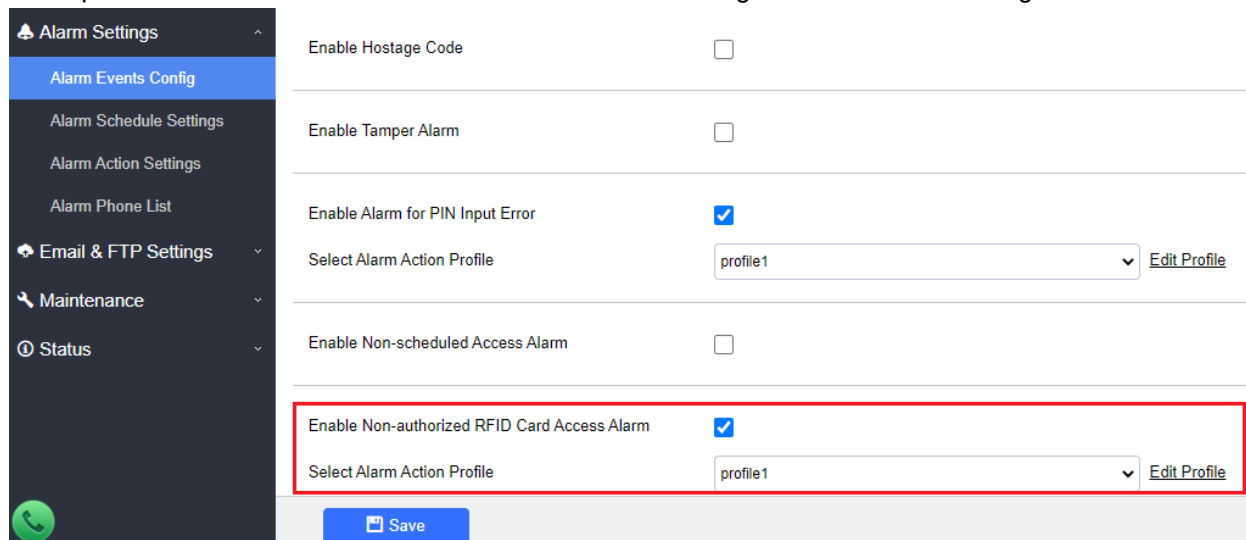
*(Universal programable I/O device)*



## ALARM ACTION WHEN ILLEGAL CARD SWIPED

- Web Configuration**

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

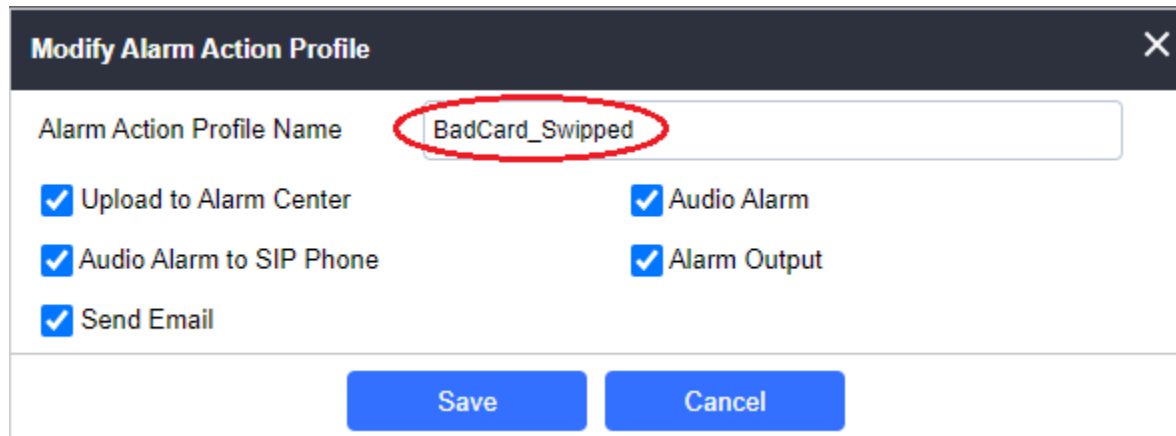


|  |                                       |
|--|---------------------------------------|
| Enable Hostage Code                          | <input type="checkbox"/>              |
| Enable Tamper Alarm                          | <input type="checkbox"/>              |
| Enable Alarm for PIN Input Error             | <input checked="" type="checkbox"/>   |
| Select Alarm Action Profile                  | profile1 <a href="#">Edit Profile</a> |
| Enable Non-scheduled Access Alarm            | <input type="checkbox"/>              |
| Enable Non-authorized RFID Card Access Alarm | <input checked="" type="checkbox"/>   |
| Select Alarm Action Profile                  | profile1 <a href="#">Edit Profile</a> |

[Save](#)

- Functionality**

This feature enhancement is requested by customers from field. By enable this feature, any illegal card swiped trying to access the door will trigger alarm based on user's configuration, like below:



**Modify Alarm Action Profile** [X]

Alarm Action Profile Name: BadCard\_Swipped

☒ Upload to Alarm Center      ☒ Audio Alarm  
☒ Audio Alarm to SIP Phone      ☒ Alarm Output  
☒ Send Email

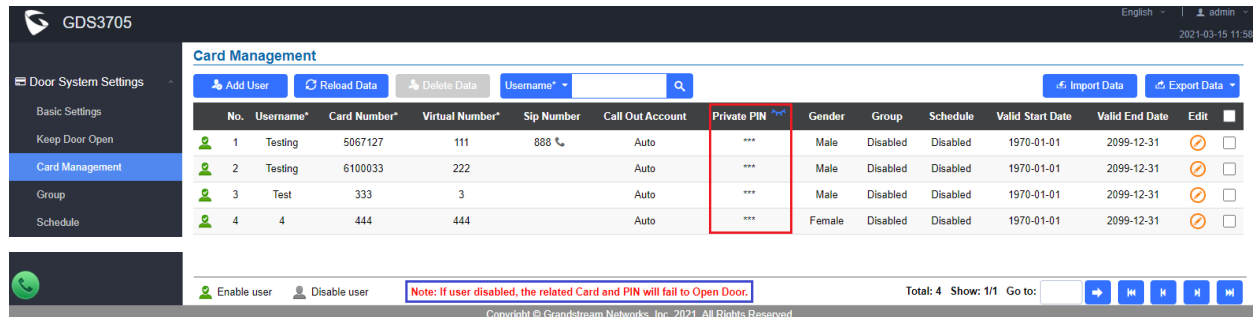
[Save](#) [Cancel](#)

User will get email, snapshot, etc., based on the Alarm Action Profile configured, to enhance the security of access control.

## MODIFIED CARD MANAGEMENT PAGE

- **Web Configuration**

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



**GDS3705** English | admin | 2021-03-15 11:58

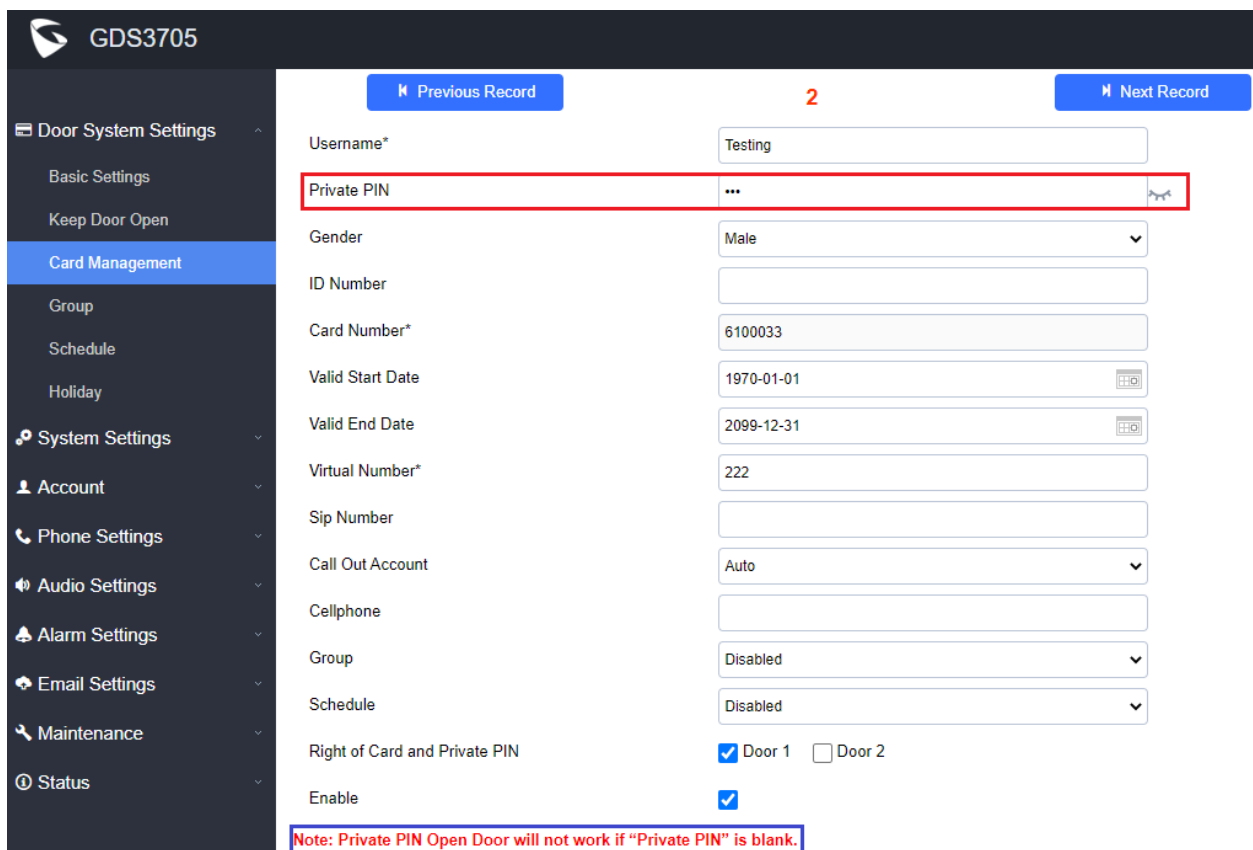
**Card Management**

+ Add User + Reload Data + Delete Data Username\* [ ] [ ] Import Data Export Data

| No. | Username* | Card Number* | Virtual Number* | Sip Number | Call Out Account | Private PIN | Gender | Group    | Schedule | Valid Start Date | Valid End Date | Edit |
|-----|-----------|--------------|-----------------|------------|------------------|-------------|--------|----------|----------|------------------|----------------|------|
| 1   | Testing   | 5067127      | 111             | 888        | Auto             | ***         | Male   | Disabled | Disabled | 1970-01-01       | 2099-12-31     | ⓘ    |
| 2   | Testing   | 6100033      | 222             |            | Auto             | ***         | Male   | Disabled | Disabled | 1970-01-01       | 2099-12-31     | ⓘ    |
| 3   | Test      | 333          | 3               |            | Auto             | ***         | Male   | Disabled | Disabled | 1970-01-01       | 2099-12-31     | ⓘ    |
| 4   | 4         | 444          | 444             |            | Auto             | ***         | Female | Disabled | Disabled | 1970-01-01       | 2099-12-31     | ⓘ    |

Enable user Disable user **Note: If user disabled, the related Card and PIN will fail to Open Door.** Total: 4 Show: 1/1 Go to: [ ] [ ] [ ] [ ] [ ]

Copyright © Grandstream Networks, Inc. 2021. All Rights Reserved.



**GDS3705**

Previous Record 2 Next Record

Username\* Testing

**Private PIN** \*\*\*

Gender Male

ID Number

Card Number\* 6100033

Valid Start Date 1970-01-01

Valid End Date 2099-12-31

Virtual Number\* 222

Sip Number

Call Out Account Auto

Cellphone

Group Disabled

Schedule Disabled

Right of Card and Private PIN ☒ Door 1 ☐ Door 2

Enable ☒

**Note: Private PIN Open Door will not work if "Private PIN" is blank.**

- **Functionality**

This enhancement is based on customer's feedback to increase the usability with friendly UI. The "Private PIN" now can be viewed in same page to help administration work when enabled. This is especially helpful when GDS3705 used to replace traditional analogue access control by using "PIN#" to open door.

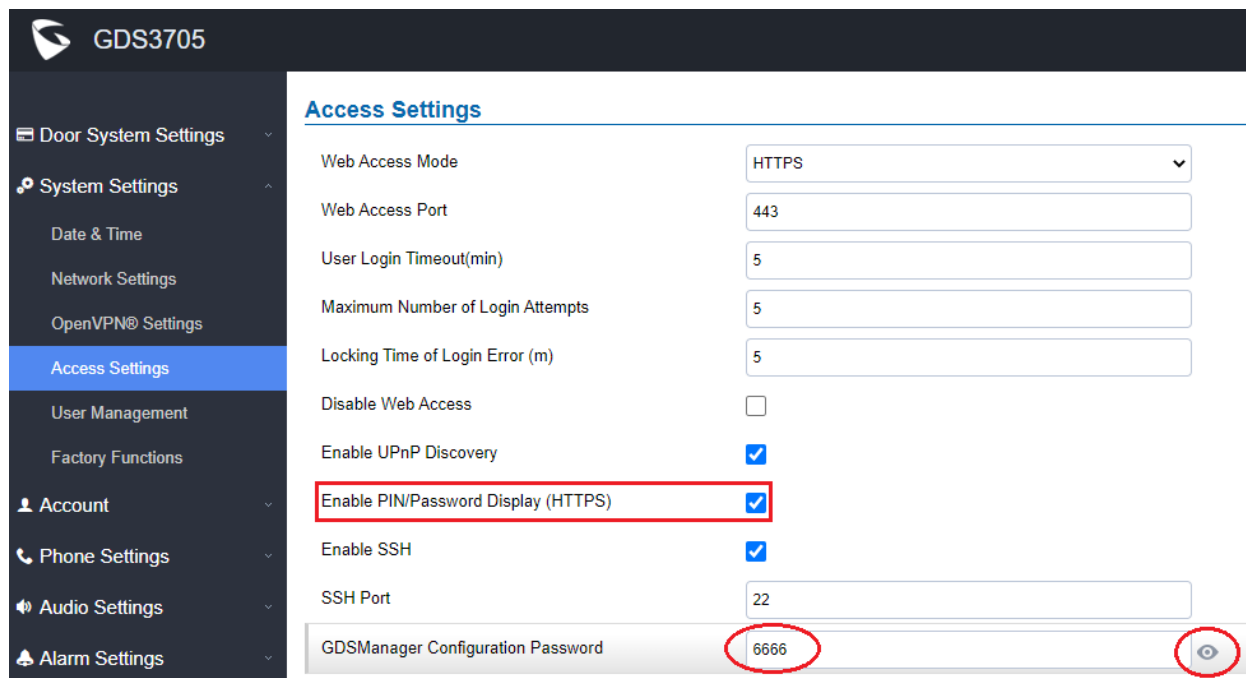
In the above screenshot, tips are added like:

- **Note: If user disabled, the related Card or PIN will fail to Open Door.**
- **Note: Private PIN Open Door will not work if "Private PIN" is blank.**

## WEBUI PASSWORD DISPLAY WITH SECURITY AND CONVENIENCE


- Web Configuration**

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



**GDS3705**

**Access Settings**

|  |   |
|--|---|
| Web Access Mode                            | HTTPS   |
| Web Access Port                            | 443   |
| User Login Timeout(min)                    | 5   |
| Maximum Number of Login Attempts           | 5   |
| Locking Time of Login Error (m)            | 5   |
| Disable Web Access                         | <input type="checkbox"/>  |
| Enable UPnP Discovery                      | <input checked="" type="checkbox"/>   |
| <b>Enable PIN/Password Display (HTTPS)</b> | <input checked="" type="checkbox"/>   |
| Enable SSH                                 | <input checked="" type="checkbox"/>   |
| SSH Port                                   | 22  |
| GDSManager Configuration Password          | 6666  |

- Functionality**

This feature enhancement is a compromised solution to response the feedback from system integrators as well as the request from ITSP customers.

ITSP customer provisioning device and do not want end user to mess around the device, therefore requesting NO password should be displayed in webUI.

System integrators have different application scenes, therefore requesting password to be displayed once logged in as admin, just for configuration and management convenience.

This feature is enhanced to meet both requirements.

By default, the “Enable PIN/Password Display (HTTPS)” is disabled for ITSP customer. Service provider customers are using Configuration Template to provision the device, they can change related P values to change the configuration of the provisioned device.

System integrators can check and enable the PIN/Password Display in the “Access Setting”. Once enabled, there will be an “eye” icon displayed in the webUI, putting mouse cursor to the “eye” icon, the related password or PIN will be displayed at the webUI. Once mouse cursor moved away, the PIN/Password will be displayed as dot “.” as usual.

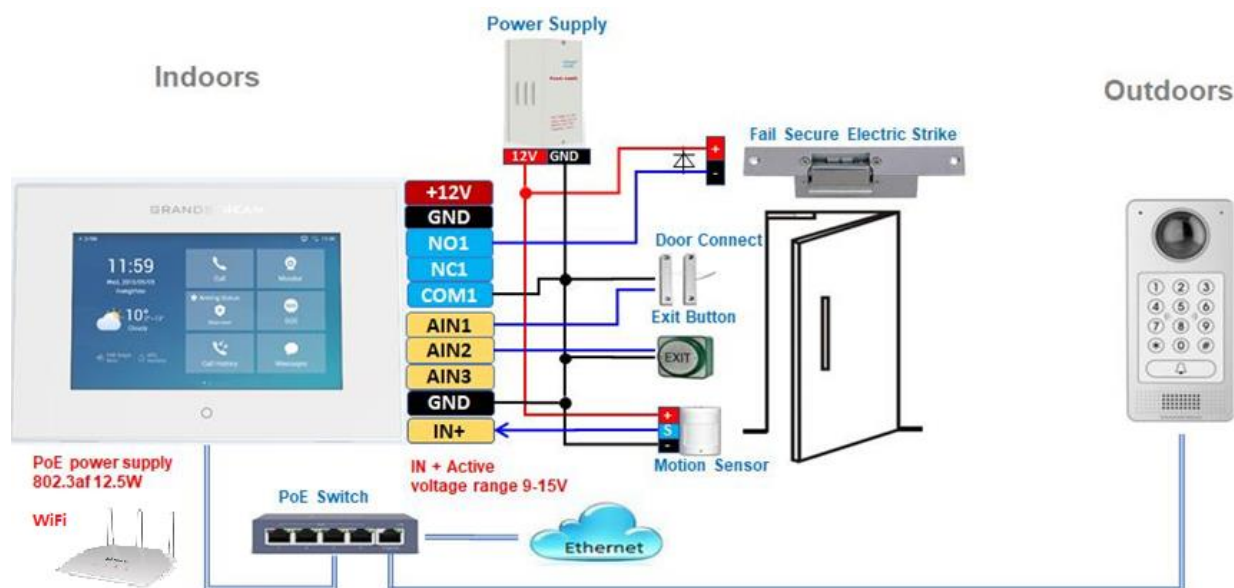
This feature ONLY works in HTTPS mode. Due to the insecurity of HTTP, PIN/Password will NOT be displayed. PIN/Password can ONLY be displayed in HTTPS mode.

## GSC3570 SECURE OPEN DOOR BY PAIRING WITH GDS37XX

This secure open door new feature is a major enhancement to GDS37xx, but need to include GSC3570 to make it a whole solution. The GDS37xx/GSC3570 will be pairing together in LAN/WAN via IP/SIP, the door lock/strike will be wired to GSC3570 Alarm\_Out port and controlled by GSC3570 (located inside) instead of GDS37xx (located outside). This way the strike control is inside the building with enhanced security.

- **Functionality**

This application scene will be similar like below:



### Minimum firmware required for this to work:

- **Outdoor Device:** **GDS3710 (FW1.0.7.19) / GDS3705 (FW1.0.1.16)**
- **Indoor Device:** **GSC3570 (FW1.0.5.2)**

The GDS37xx can be powered via PoE; the GSC3570 can connect to same network via PoE or Wi-Fi.

For open door combination with GSC3570 and GDS37xx, if GSC3570 needs to control multiple GDS37xx, it has to use SIP and the related GDS37xx will control the strike/lock. The different GDS37xx doorbell call will have "One Button Open Door" displayed when in "Preview" (early media support) or when call established. The GSC3570 user will press the virtual button on touch screen to remotely open the door controlled by the related GDS37xx. There is no door limitation for such usage but only ONE DOOR can be opened at one time. It is just a SIP call open door application, but strike/lock control circuit is located outdoor.

For “Secure Open Door”, the GSC3570 is pairing with GDS37xx. The GSC3570 controlling the relay/strike/lock from inside the building (Unlike GDS37xx installed outside), but only ONE door can be controlled because GSC3570 only has one Relay Control circuit build in.

This pairing can be via LAN/WAN but LAN is recommended and actually most of the application scene are in LAN environment because most likely the GSC3570 and GDS37xx are in the same building.

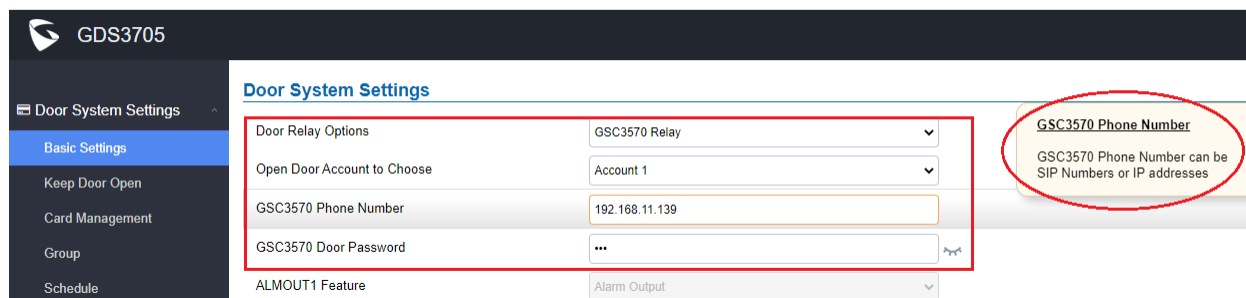
Although SIP/UCM over Internet/WAN also works, it is recommended to use static IP if the GSC3570 (inside) and GDS37xx (outside) are at same location in the same LAN. This setup is much simple and reliable in case there is network outage like Internet/UCM is down.

For the GSC3570 and GDS37xx pairing, it can be used via SIP only (Cloud or UCM); IP only (No SIP proxy or UCM but static IP address) and Mixed (SIP and fallback to IP if Proxy failed).

- **Web Configuration**

**GDS3705: (FW: 1.0.1.16 or above)**

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



**Door System Settings**

**Basic Settings**

Door Relay Options: GSC3570 Relay

Open Door Account to Choose: Account 1

GSC3570 Phone Number: 192.168.11.139

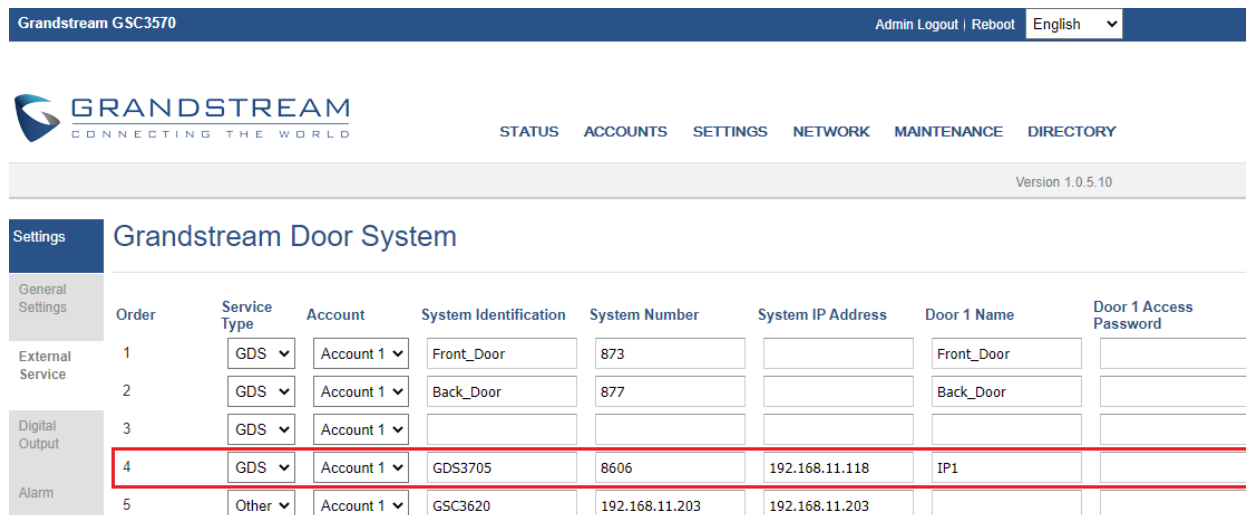
GSC3570 Door Password: ...

ALMOUT1 Feature: Alarm Output

**GSC3570 Phone Number**  
GSC3570 Phone Number can be SIP Numbers or IP addresses

**GSC3570: (FW: 1.0.5.2 or above)**

The GSC3570 side also need to be configured according, like below:



Grandstream GSC3570

Admin Logout | Reboot | English

**GRANDSTREAM**  
CONNECTING THE WORLD

STATUS ACCOUNTS SETTINGS NETWORK MAINTENANCE DIRECTORY

Version 1.0.5.10

**Settings** Grandstream Door System

|                  | Order | Service Type | Account   | System Identification | System Number  | System IP Address | Door 1 Name | Door 1 Access Password |
|------------------|-------|--------------|-----------|-----------------------|----------------|-------------------|-------------|------------------------|
| External Service | 1     | GDS          | Account 1 | Front_Door            | 873            |                   | Front_Door  |                        |
|                  | 2     | GDS          | Account 1 | Back_Door             | 877            |                   | Back_Door   |                        |
| Digital Output   | 3     | GDS          | Account 1 |                       |                |                   |             |                        |
| Alarm            | 4     | GDS          | Account 1 | GDS3705               | 8606           | 192.168.11.118    | IP1         |                        |
|                  | 5     | Other        | Account 1 | GSC3620               | 192.168.11.203 | 192.168.11.203    |             |                        |

**Settings**

- General Settings
- External Service
- Digital Output
- Alarm
- SOS
- IPC
- Call Features
- Preferences

## Digital Output

|                     |                |
|---------------------|----------------|
| Digital Output      | To door ▼      |
| Account             | Account 1 ▼    |
| System Number       | 8606           |
| System IP Address   | 192.168.11.123 |
| Password            | ...            |
| Unlock holding time | 3              |

replace SIP extension with IP address  
if no SIP proxy

Save Save and Apply Reset

If the solution/integration is using static IP address without SIP Proxy, all the devices involved (GDS/GSC/IP Phone) should choose “NAT Traversal” to “No” and should NOT “Use Random Port”, otherwise will have problem of ghost call (SIP signaling working but NO media).

**Accounts**

- Account 1
- Account 2
- General Settings
- Dialplan
- Network Settings**
- SIP Settings
- Codec Settings
- Call Settings
- Intercom Settings
- Account 3
- Account 4
- Account Swap

## Network Settings

|                    |   |
|--------------------|---|
| DNS Mode           | A Record ▼  |
| Primary IP         |   |
| Backup IP 1        |   |
| Backup IP 2        |   |
| NAT Traversal      | No ▼  |
| UPnP NAT Traversal | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| Proxy-Require      |   |

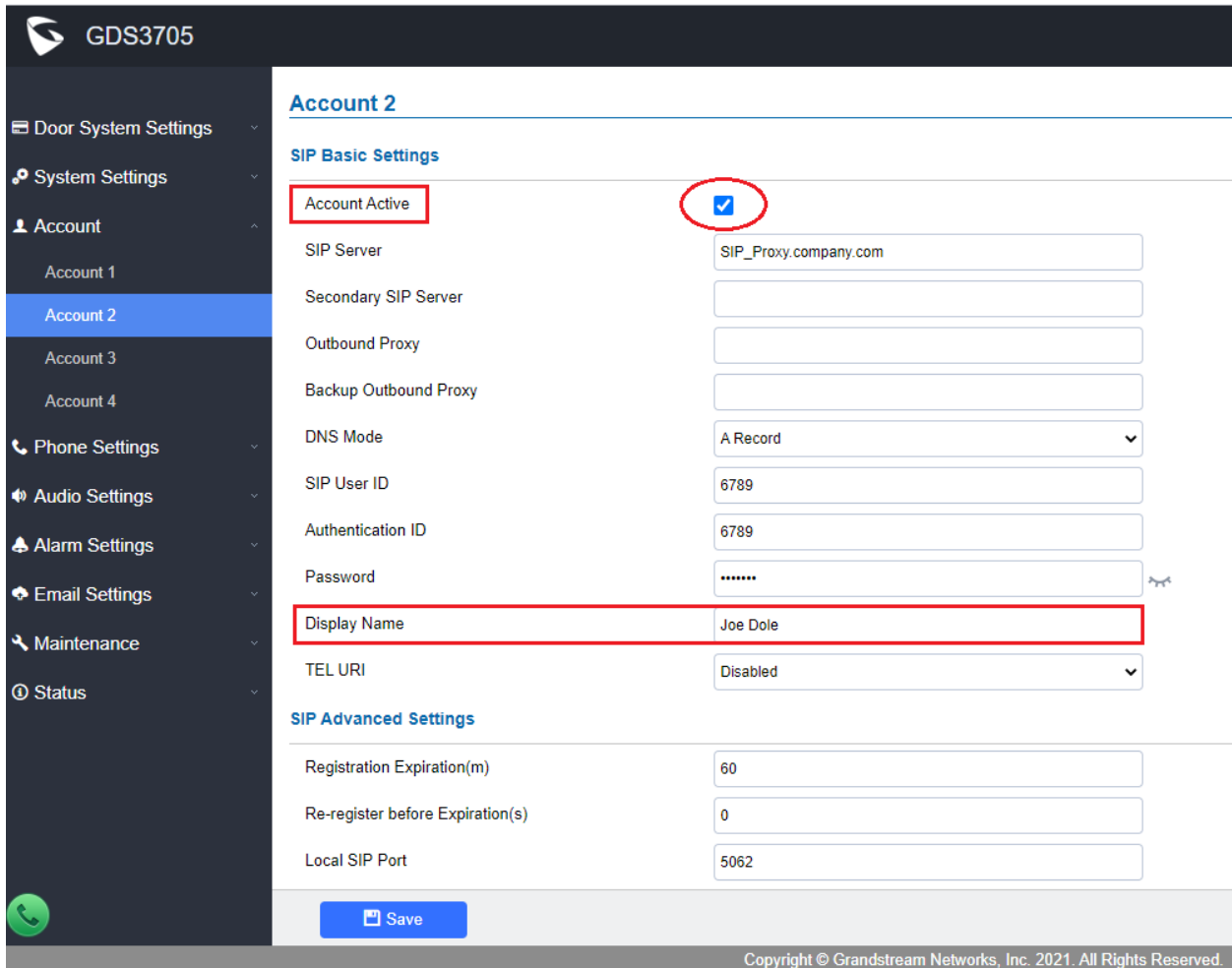
Save Save and Apply Reset

The IP phone or GSC3570 can use any empty SIP account, meaning it can be mixed if Account 1 registered to UCM/Proxy and Account 2 (blank) to use IP (but the account has to be configured as “Active”).

## ADDED SIP ACCOUNT ACTIVE FEATURE

- Web Configuration**

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



**GDS3705**

**Account 2**

**SIP Basic Settings**

Account Active ☒

SIP Server

Secondary SIP Server

Outbound Proxy

Backup Outbound Proxy

DNS Mode

SIP User ID

Authentication ID

Password

Display Name

TEL URI

**SIP Advanced Settings**

Registration Expiration(m)

Re-register before Expiration(s)

Local SIP Port

**Save**

Copyright © Grandstream Networks, Inc. 2021. All Rights Reserved.

- Functionality**

This feature enhancement is based on request and feedback from customers in field.

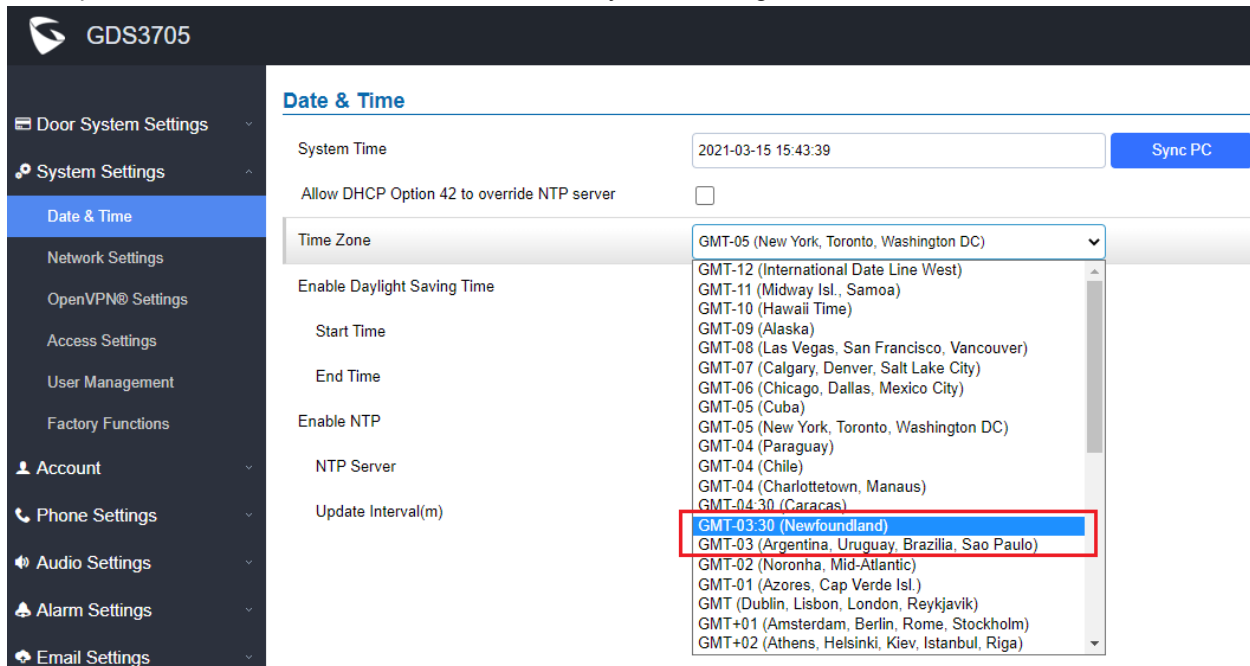
With this feature, the GDS3705 will behave and function the same as Grandstream IP Audio Phone.

When enable Account Active, but without configure SIP Server or User ID (leave those field blank), this feature will allow GDS3705 to receive calls via IP with different Account via different Port specified.

## ADD "GMT-3:30" TIME ZONE SUPPORT

- **Web Configuration**

This option can be found under device web UI → System Settings → Date & Time:



**GDS3705**

**Date & Time**

System Time: 2021-03-15 15:43:39 Sync PC

Allow DHCP Option 42 to override NTP server: ☐

Time Zone: GMT-05 (New York, Toronto, Washington DC) ▼

Enable Daylight Saving Time: ☐

Start Time:

End Time:

Enable NTP: ☐

NTP Server:

Update Interval(m):

Time Zone List:

- GMT-12 (International Date Line West)
- GMT-11 (Midway Isl., Samoa)
- GMT-10 (Hawaii Time)
- GMT-09 (Alaska)
- GMT-08 (Las Vegas, San Francisco, Vancouver)
- GMT-07 (Calgary, Denver, Salt Lake City)
- GMT-06 (Chicago, Dallas, Mexico City)
- GMT-05 (Cuba)
- GMT-05 (New York, Toronto, Washington DC)
- GMT-04 (Paraguay)
- GMT-04 (Chile)
- GMT-04 (Charlottetown, Manaus)
- GMT-04:30 (Caracas)
- GMT-03:30 (Newfoundland)**
- GMT-03 (Argentina, Uruguay, Brazilia, Sao Paulo)
- GMT-02 (Noronha, Mid-Atlantic)
- GMT-01 (Azores, Cap Verde Isl.)
- GMT (Dublin, Lisbon, London, Reykjavik)
- GMT+01 (Amsterdam, Berlin, Rome, Stockholm)
- GMT+02 (Athens, Helsinki, Kiev, Istanbul, Riga)

- **Functionality**

This is a major security enhancement for GDS37xx (GDS3705/3710). With OpenVPN supporting, customer can link GDS37xx over VPN network, operating and controlling it.

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

- **GDS3705 User Manual:**  
[http://www.grandstream.com/sites/default/files/Resources/GDS3705\\_UserManual.pdf](http://www.grandstream.com/sites/default/files/Resources/GDS3705_UserManual.pdf)
- **HOW-TO Guide**  
<http://www.grandstream.com/support/resources/?title=GDS3705>



## FIRMWARE VERSION 1.0.1.11

### PRODUCT NAME

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

### DATE

07/01/2020

### SUMMARY OF UPDATE

This firmware update of GDS3705 is mainly for feature enhancement and bug fixes.

**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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### BUG FIX

- Fixed doorbell parallel hunting call one users reject the call will stop other group member ringing.
- Fixed Event Notification Logs still sending out when disabled or unauthorized card used to open door.
- Fixed device cannot be provisioned with general configuration file without MAC header of the unit
- Fixed doorbell call serial hunting will not move to next one if the first number rejected the call

## ENHANCEMENT

- Added forcing user to change default password once default password used to log in
- Added WebRelay Open Door Feature
- Added OpenVPN support
- Added call termination button in the webUI
- Add configurable option to specify the cache time/refresh of DNS entries [Telefonica ITSP]
- Add ability to provision Card Management users [Telefonica ITSP]
- Added support for failover mechanism based on DNS SRV [Telefonica ITSP]
- Increased Unlock Holding Time to 30 minutes [Netia ITSP]
- Changed SIP Account Name to Display Name
- Added GDS37XX reboot/resync via SIP Notify
- Added ability in Event Log to display the attempts of unauthorized cards to open door
- Added support of User Name in HTTP Event Notification

## 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

- P4208
- P28160
  - GET:[http|https]://<servername>/goform/config?cmd=get&type=sip
  - SET:[http|https]://<servername>/goform/config?cmd=set&Pxxx=<value>
- P15440 / P15441
- P15442 / P15443
  - GET:[http|https]://<servername>/goform/config?cmd=get&type=door
  - SET:[http|https]://<servername>/goform/config?cmd=set&Pxxx=<value>
- P7050 / P7051 /P7052
- P2912 / P8460
- P8394 / P8395 / P8396
  - GET:[http|https]://<servername>/goform/config?cmd=get&type=openvpn
  - SET:[http|https]://<servername>/goform/config?cmd=set&Pxxx=<value>
- P9902 / P9903 / P9904
  - GET:[http|https]://<servername>/goform/config?cmd=get&type= openvpn
  - UPLOAD:[http|https]://<servername>/goform/config?cmd= upload&type=4&index=x (x=0/1/2)
  - DEL:[http|https]://<servername>/goform/config?cmd= del&openvpn=x (x=0/1/2)
- P4428
  - GET:[http|https]://<servername>/goform/config?cmd=get&type=upgrade
  - SET:[http|https]://<servername>/goform/config?cmd=set&Pxxx=<value>

## NEW P-VALUE

- P4208: Phone\_Settings.Phone\_Settings.DNS\_Cache\_Expiration\_Time. (value range: 1 ~1440)
- P28160: Phone\_Settings.Phone\_Settings.DNS\_Cache\_Duration. (value range: 0 ~ 1440)
- P15440: Door\_System\_Settings.Basic\_Settings.Door\_Relay\_Options. (value: 0: Local Relay; 1: WebRelay)
- P15441: Door\_System\_Settings.Basic\_Settings.Webrelay\_IP\_Address. (Type: string; Max.length = 255)
- P15442: Door\_System\_Settings.Basic\_Settings. Webrelay\_Username. (Type: string; Max.length = 128)
- P15443: Door\_System\_Settings.Basic\_Settings. Webrelay\_Password. (Type: string; Max.length=128)
- P7050: System\_Settings. OpenVPN® Settings.Openvpn\_Enable. (value: 0: Disable; 1: Enable)
- P7051: System\_Settings. OpenVPN® Settings.Openvpn\_Server\_Address. (Type: string. Max.length=256)
- P7052: System\_Settings. OpenVPN® Settings.Openvpn\_Port (value range: 0 ~ 65535)
- P2912: System\_Settings. OpenVPN® Settings.Openvpn\_Transport (value: 0: UDP; 1: TCP)
- P9902: System\_Settings. OpenVPN® Settings.Openvpn\_CA (Type: string; Max length = 8192)
- P9903: System\_Settings. OpenVPN® Settings.Openvpn\_Client\_Certificate (Type: string; Max length = 8192)
- P9904: System\_Settings. OpenVPN® Settings.Openvpn\_Client\_Key (Type: string; Max length = 8192)
- P8396: System\_Settings. OpenVPN® Settings.Openvpn\_Cipher\_Method  
(value: 0: Blowfish; 1:AES-128; 2:AES-256; 3:Triple-DES)
- P8394: System\_Settings. OpenVPN® Settings.Openvpn\_Username (Type: string; Max.length=256)
- P8395: System\_Settings. OpenVPN® Settings.Openvpn\_Password (Type: string; Max length is 256)
- P8460: System\_Settings. OpenVPN® Settings. Additional\_Options (Type: string; Max.length=1024)
- P4428: Maintenance.Upgrade.Disable\_SIP\_NOTIFY\_Authentication (value: 0: disable; 1:enable)

## MODIFIED P-VALUE

- P14101: Unlock Action Holding Time (*value range updated from: 0 ~ 20 to 0 ~ 1800*)
- P15466: Door 2 Unlock Action Holding Time (*value range updated from: 0 ~ 20 to 0 ~ 1800*)

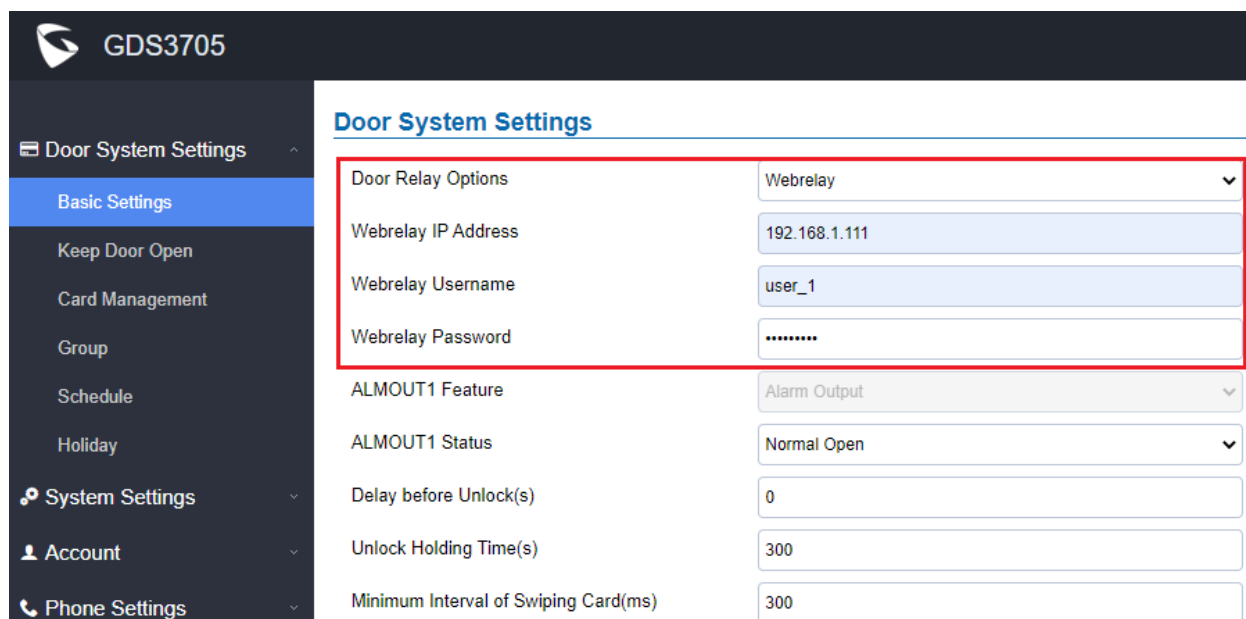
## NEW FEATURES OVERVIEW

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

### SUPPORT WEBRELAY OPEN DOOR

- **Web Configuration**

This option can be found under device web UI → Door System Settings → Basic Settings → Door Relay Options: Pull down UI has two choices, Local Relay or Webrelay



| Door System Settings                 |                |
|--------------------------------------|----------------|
| Door Relay Options                   | Webrelay ▼     |
| Webrelay IP Address                  | 192.168.1.111  |
| Webrelay Username                    | user_1         |
| Webrelay Password                    | *****          |
| ALMOUT1 Feature                      | Alarm Output ▼ |
| ALMOUT1 Status                       | Normal Open ▼  |
| Delay before Unlock(s)               | 0              |
| Unlock Holding Time(s)               | 300            |
| Minimum Interval of Swiping Card(ms) | 300            |

- **Functionality**

This is a major feature enhancement based on feedback from field. This feature allow customers to integrate GDS37XX with 3<sup>rd</sup> party webrelay to control door open over network, via script or other applications, to meet real application scene and enhance security.

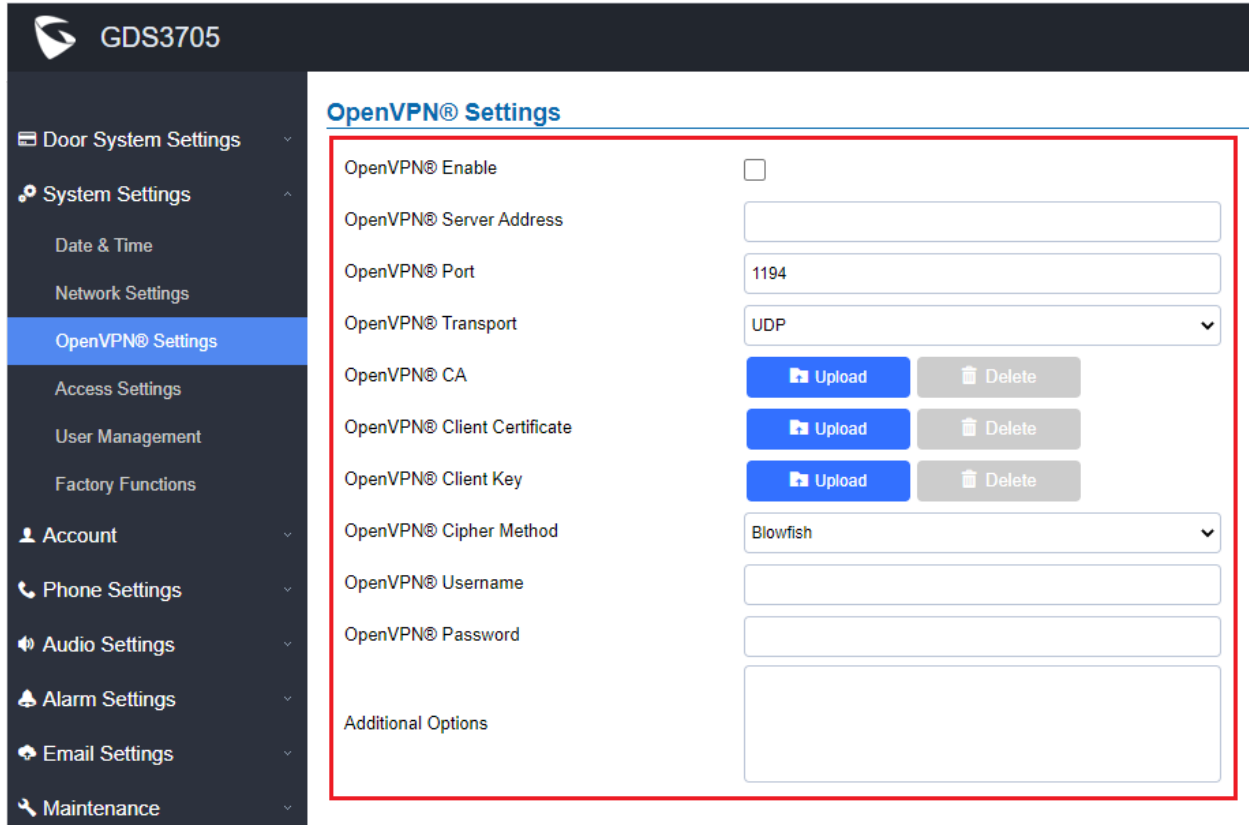
Users need to input webrelay IP address or domain name, as well as authentication information, to make this to work.

For details please refer to GDS37XX user manual, as well as the [webrelay technical document and user manual](#).

## SUPPORT OPEN VPN

- **Web Configuration**

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



**GDS3705**

**OpenVPN® Settings**

- OpenVPN® Enable ☐
- OpenVPN® Server Address
- OpenVPN® Port
- OpenVPN® Transport
- OpenVPN® CA
- OpenVPN® Client Certificate
- OpenVPN® Client Key
- OpenVPN® Cipher Method
- OpenVPN® Username
- OpenVPN® Password
- Additional Options

- **Functionality**

This is a major security enhancement for GDS37xx (GDS3705/3710). With OpenVPN supporting, customer can link GDS37xx over VPN network, operating and controlling it.

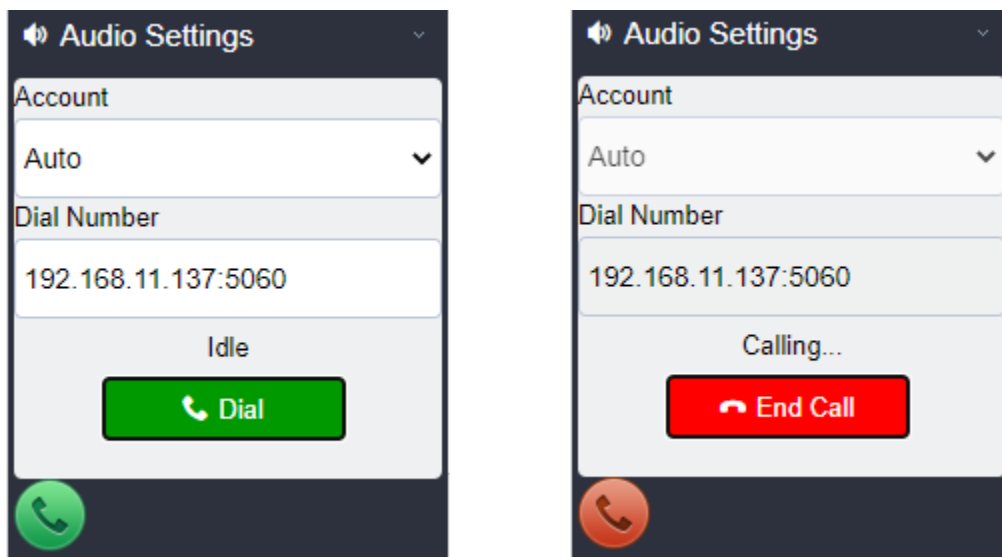
For detailed information, please refer to User Manual and Resource Center:

- GDS3705 User Manual:  
[http://www.grandstream.com/sites/default/files/Resources/GDS3705\\_UserManual.pdf](http://www.grandstream.com/sites/default/files/Resources/GDS3705_UserManual.pdf)
- HOW-TO Guide  
<http://www.grandstream.com/support/resources/?title=GDS3705>

## ADDED CALL TERMINATION BUTTON IN WEBUI

- **Web Configuration**

This option can be found when log in to the webUI, displayed at lower left corner of the UI:



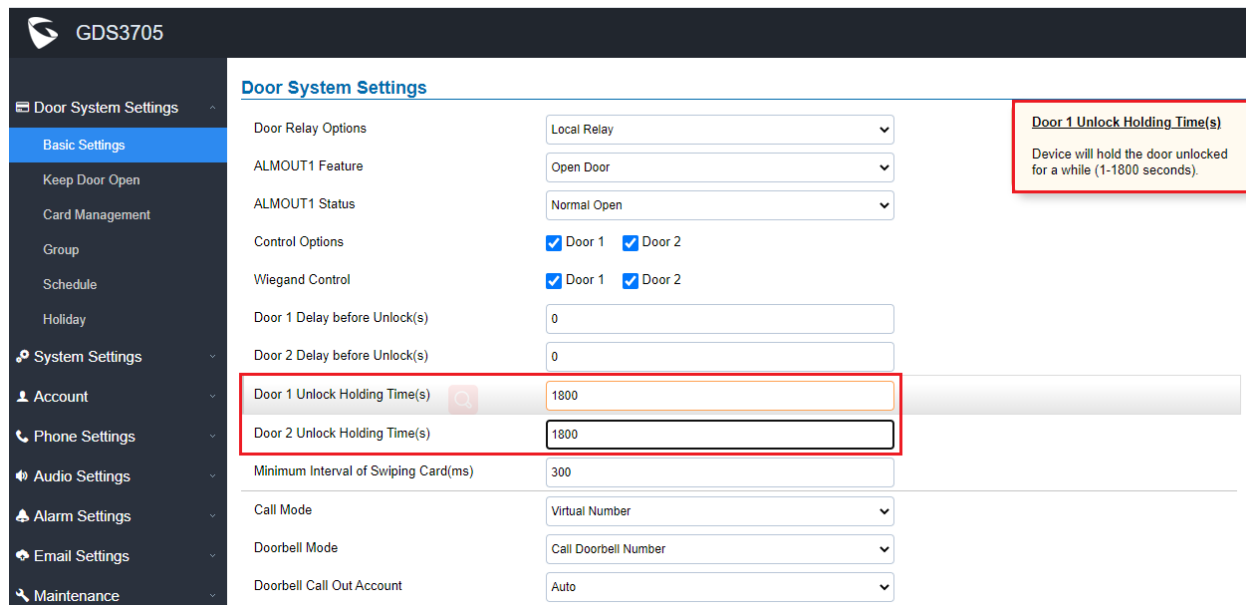
- **Functionality**

This feature allows user to make calls by input extension number or IP address, and terminate the calls from webUI, for user's convenience, like testing or verification.

## INCREASED UNLOCK HOLDING TIME TO 30 MINUTES

- Web Configuration**

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



**GDS3705**

**Door System Settings**

- Basic Settings
- Keep Door Open
- Card Management
- Group
- Schedule
- Holiday
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance

**Door System Settings**

|                                      |   |
|--------------------------------------|---|
| Door Relay Options                   | Local Relay   |
| ALMOUT1 Feature                      | Open Door   |
| ALMOUT1 Status                       | Normal Open   |
| Control Options                      | <input checked="" type="checkbox"/> Door 1 <input checked="" type="checkbox"/> Door 2 |
| Wiegand Control                      | <input checked="" type="checkbox"/> Door 1 <input checked="" type="checkbox"/> Door 2 |
| Door 1 Delay before Unlock(s)        | 0   |
| Door 2 Delay before Unlock(s)        | 0   |
| Door 1 Unlock Holding Time(s)        | 1800  |
| Door 2 Unlock Holding Time(s)        | 1800  |
| Minimum Interval of Swiping Card(ms) | 300   |
| Call Mode                            | Virtual Number  |
| Doorbell Mode                        | Call Doorbell Number  |
| Doorbell Call Out Account            | Auto  |

**Door 1 Unlock Holding Time(s)**  
Device will hold the door unlocked for a while (1-1800 seconds).

- Functionality**

This feature enhancement is based on request and feedback from customers in field.

The Unlock Holding Time maximum value is increased from 20 seconds to 1800 seconds (or 30 minutes).

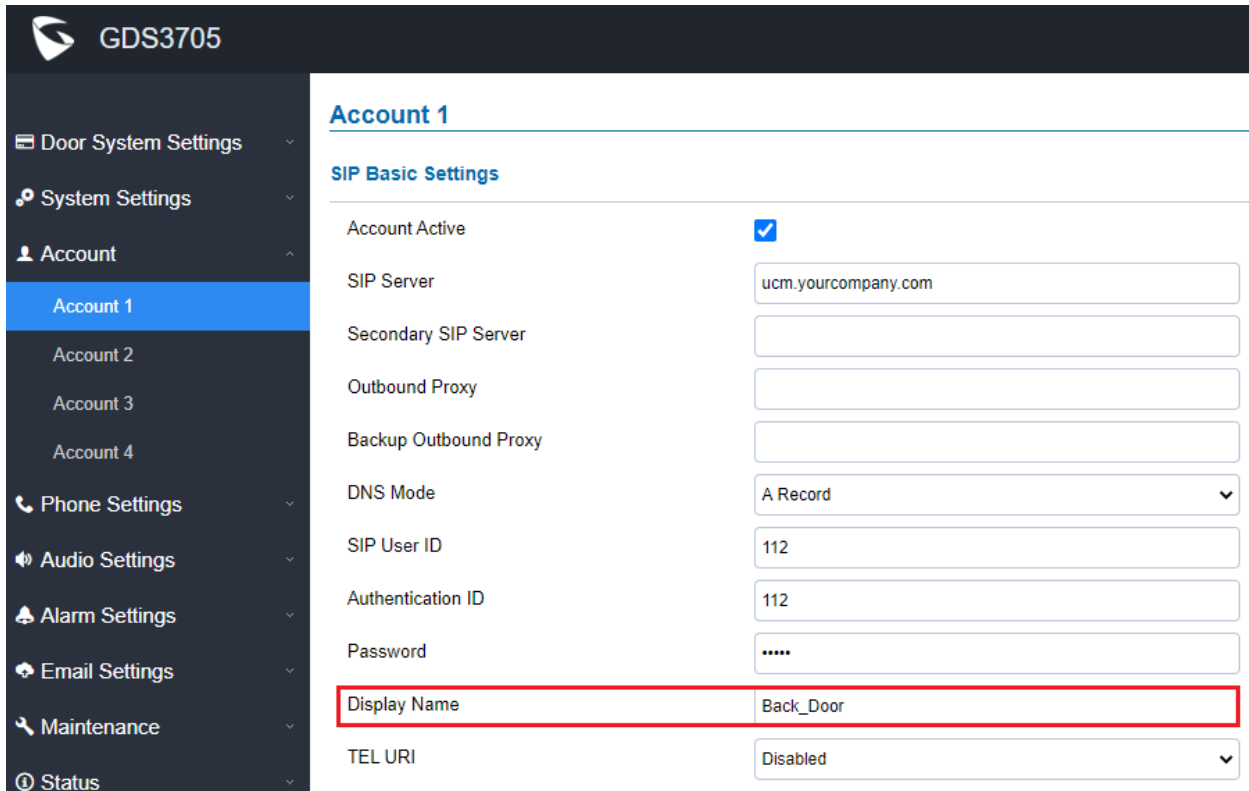
The request is raised by customers using GDS37XX in scenes like Senior House. This is special useful during COVID-19 pandemic period where Senior House is forbidden outside people visiting. Increase the unlock holding time so the people in wheelchair can push button to unlock the door, get outside to do some activities like pickup online ordering stuff, dropping trash, etc., and coming back, without other person involved. This will reduce human contract, and minimize the risk of COVID-19.



## CHANGED SIP ACCOUNT NAME TO DISPLAY NAME

- **Web Configuration**

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



The screenshot shows the web configuration interface for a Grandstream GDS3705 device. The left sidebar contains a menu with options: Door System Settings, System Settings, Account, Account 1 (selected), Account 2, Account 3, Account 4, Phone Settings, Audio Settings, Alarm Settings, Email Settings, Maintenance, and Status. The main content area is titled 'Account 1' and 'SIP Basic Settings'. It includes fields for Account Active (checked), SIP Server (ucm.yourcompany.com), Secondary SIP Server, Outbound Proxy, Backup Outbound Proxy, DNS Mode (A Record), SIP User ID (112), Authentication ID (112), Password (masked), Display Name (Back\_Door, highlighted with a red border), and TEL URI (Disabled).

- **Functionality**

The GDS3705 is an audio only device, unlike GDS3710, user cannot see who in at the door.

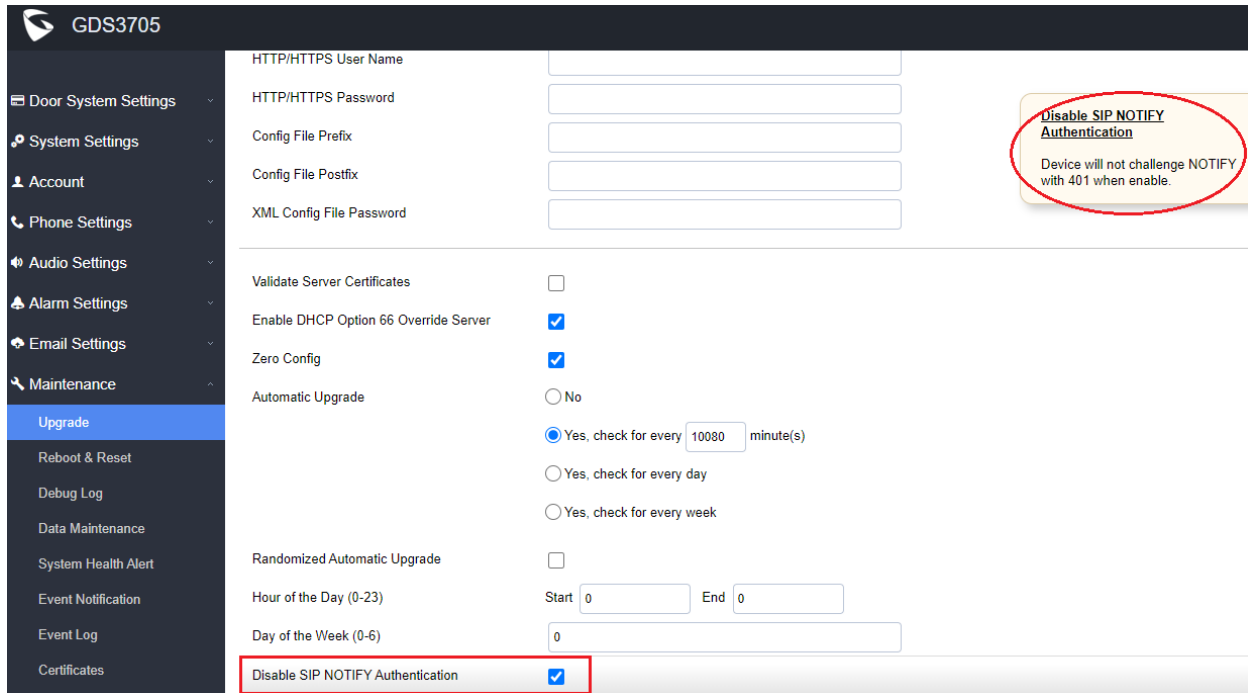
Adding this “Display Name” will also allow user receiving calls from GDS3705 knowing where the call is coming from (e.g.: which door or extension the call is made), improve user experience when user is using an IP phone with LCD display.

This feature enhancement is also in response to customer’s feedback from field.

## ADDED REBOOT/RESYNC VIA SIP NOTIFY

- Web Configuration**

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



**GDS3705**

- Door System Settings
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
  - Upgrade**
  - Reboot & Reset
  - Debug Log
  - Data Maintenance
  - System Health Alert
  - Event Notification
  - Event Log
  - Certificates

HTTP/HTTPS User Name:

HTTP/HTTPS Password:

Config File Prefix:

Config File Postfix:

XML Config File Password:

Validate Server Certificates: ☐

Enable DHCP Option 66 Override Server: ☒

Zero Config: ☒

Automatic Upgrade: ☐ No  
☒ Yes, check for every  minute(s)  
☐ Yes, check for every day  
☐ Yes, check for every week

Randomized Automatic Upgrade: ☐

Hour of the Day (0-23): Start  End

Day of the Week (0-6):

**Disable SIP NOTIFY Authentication: ☒**

**Disable SIP NOTIFY Authentication**  
 Device will not challenge NOTIFY with 401 when enable.

- Functionality**

This feature is disabled with security authentication previously based on request from ITSP customers, but lots of system integrators or system administrators still want to use this feature to remote reboot the GDS37xx for maintenance, firmware upgrade, re-provisioning, etc.

Based on feedback from customers in field, this feature is added back by a switch. By Default this feature is disabled with 401 Challenge NOTIFY.

Customer who need this feature to reboot device need manually check “Disable SIP NOTIFY Authentication” option (with understanding of potential security risk), then the device will response to the related SIP NOTIFY message to reboot the device (at some particular time with the control scripts from server), to do routine maintenance, firmware upgrade, etc., for the convenience of system administrator.

## 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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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

|                       |  |
|-----------------------|--|
| IP15508: (value: 0/1) | Alarm_Settings.Alarm_Events_Config.Digit_Input.Digit_Input_1_Abnormal_Door_Control_Options<br><br>GET: http://ip:port/goform/config?cmd=get&type=event<br>SET: http://ip:port/goform/config?cmd=set&P15508=<value> |
| IP15509: (value: 0/1) | Alarm_Settings.Alarm_Events_Config.Digit_Input.Digit_Input_2_Abnormal_Door_Control_Options<br><br>GET: http://ip:port/goform/config?cmd=get&type=event<br>SET: http://ip:port/goform/config?cmd=set&P15509=<value> |

## 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

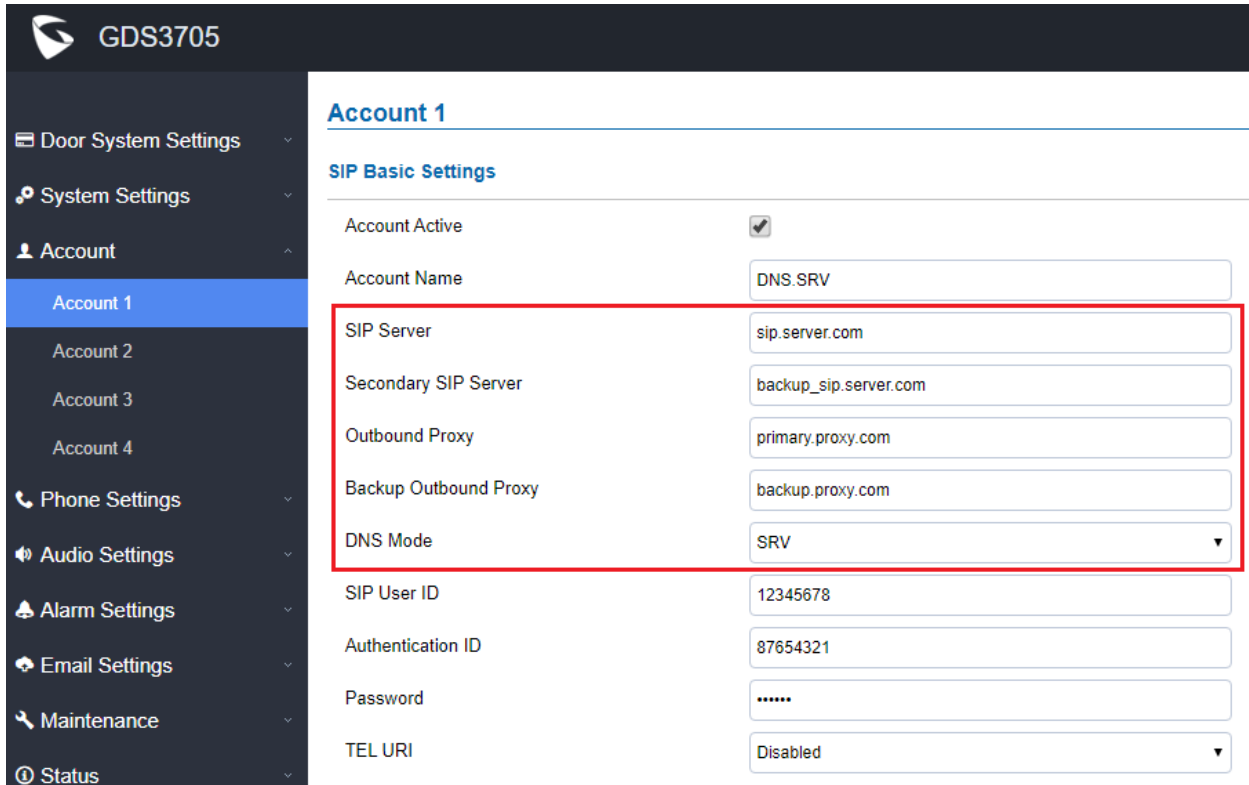
## NEW FEATURES OVERVIEW

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 1**

**SIP Basic Settings**

|                       |                                     |
|-----------------------|-------------------------------------|
| Account Active        | <input checked="" type="checkbox"/> |
| Account Name          | DNS.SRV                             |
| SIP Server            | sip.server.com                      |
| Secondary SIP Server  | backup_sip.server.com               |
| Outbound Proxy        | primary.proxy.com                   |
| Backup Outbound Proxy | backup.proxy.com                    |
| DNS Mode              | SRV ▼                               |
| SIP User ID           | 12345678                            |
| Authentication ID     | 87654321                            |
| Password              | .....                               |
| TEL URI               | Disabled ▼                          |

- **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.


**GDS3705**

Door System Settings
System Settings
Account
Account 1
Account 2
Account 3
Account 4
Phone Settings
Audio Settings
Alarm Settings
Email Settings
Maintenance
Status

**SIP Advanced Settings**

Registration Expiration(m) 1800
Re-register before Expiration(s) 0
Local SIP Port 5060
SIP Transport UDP
Enable DTMF ☒ RFC2833 ☐ SIP INFO
DTMF Payload Type 101
Enable Keep Alive ☒
Unregister On Reboot ☒
NAT Traversal Auto
Enable SRTP Disabled
Special Feature Broadsoft
Outbound Proxy Mode Standard
Broadsoft
Telefonica Spain
Validate Incoming Messages ☐

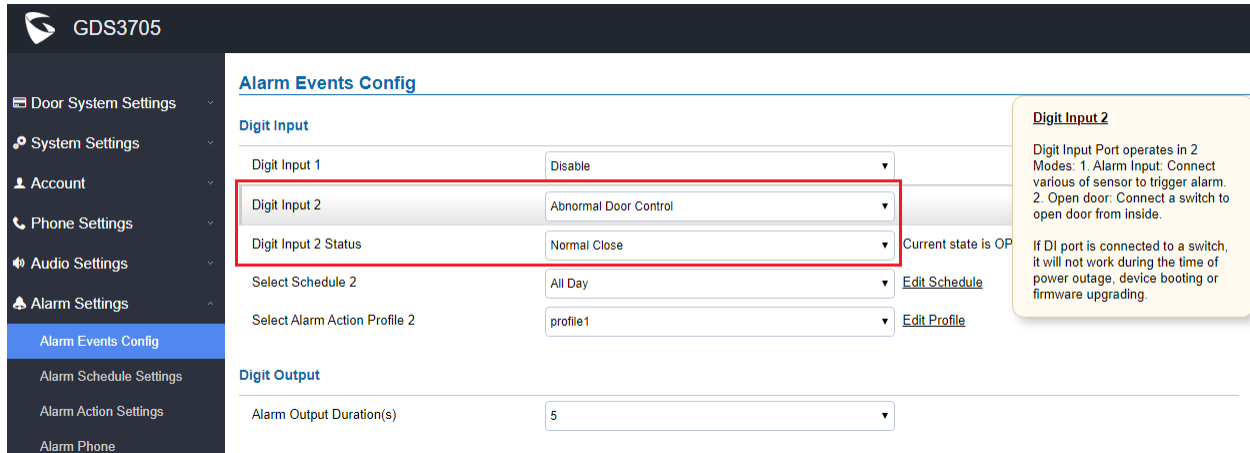
**Outbound Proxy Mode**  
 Outbound proxy mode is to place in route header in sending SIP messages, or they can be always sent to outbound proxy.

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:



**GDS3705**

**Alarm Events Config**

**Digit Input**

|                               |                                       |
|-------------------------------|---------------------------------------|
| Digit Input 1                 | Disable                               |
| Digit Input 2                 | Abnormal Door Control                 |
| Digit Input 2 Status          | Normal Close                          |
| Select Schedule 2             | All Day <a href="#">Edit Schedule</a> |
| Select Alarm Action Profile 2 | profile1 <a href="#">Edit Profile</a> |

**Digit Input 2**

Digit Input Port operates in 2 Modes. 1. Alarm Input: Connect various of sensor to trigger alarm. 2. Open door: Connect a switch to open door from inside.

If DI port is connected to a switch, it will not work during the time of power outage, device booting or firmware upgrading.

**Digit Output**

|                          |   |
|--------------------------|---|
| Alarm Output Duration(s) | 5 |
|--------------------------|---|

- **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.

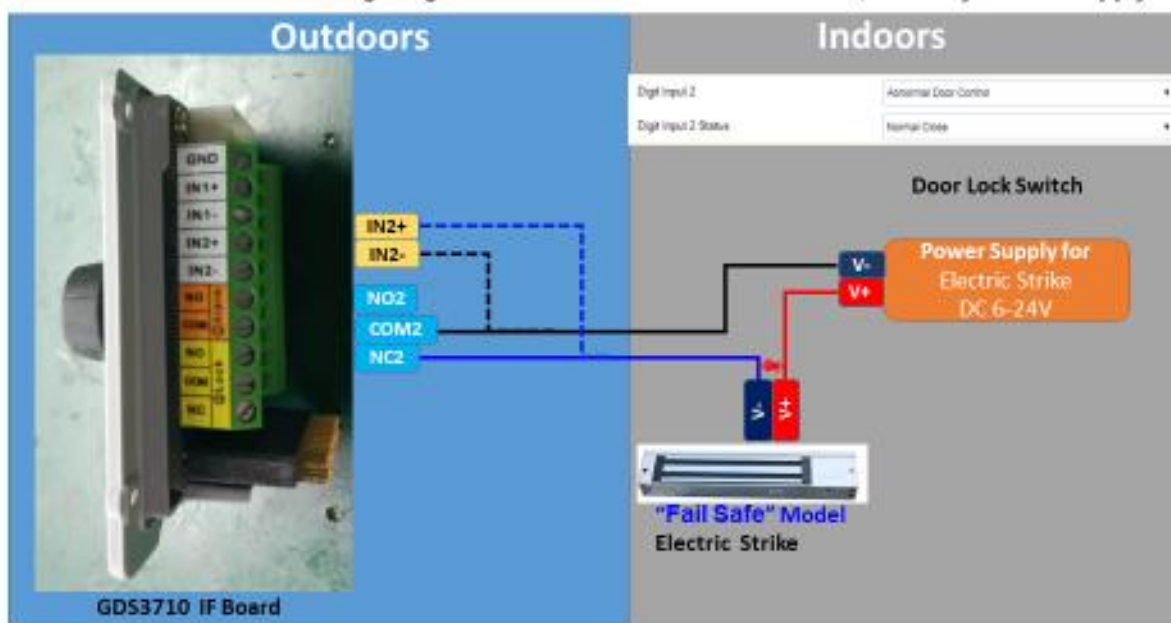
Detailed action information please refer to GDS37xx User Manual, “Alarm Action Settings” configuration. Below are some diagrams showing the correct wiring to enable this new security enhancement feature.



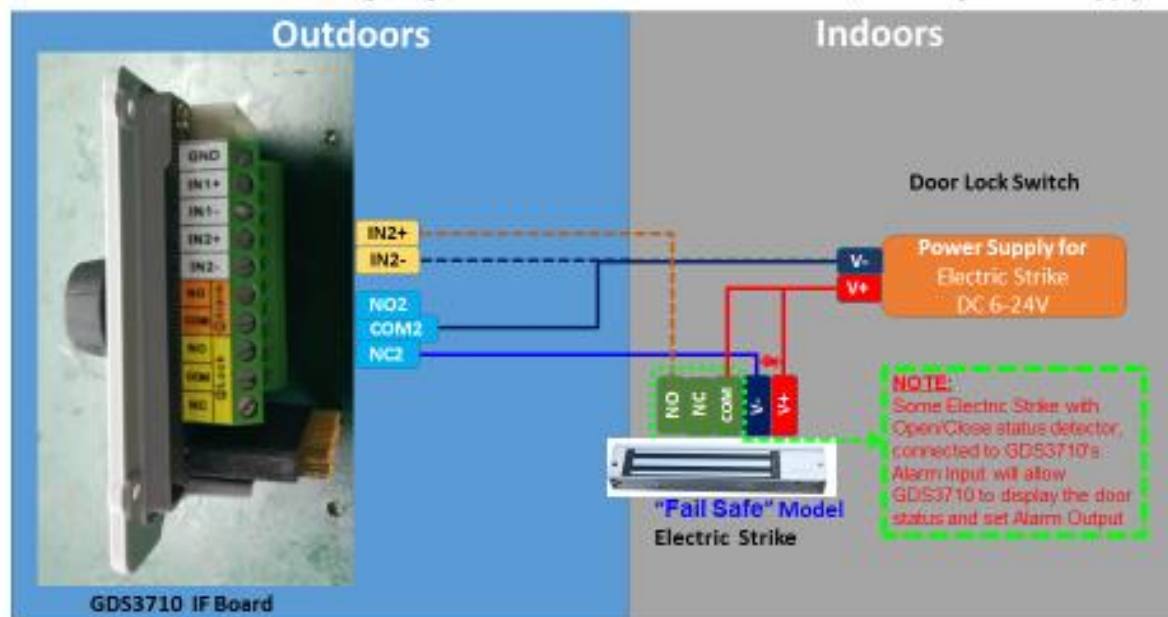
# NOTE:

- 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.**

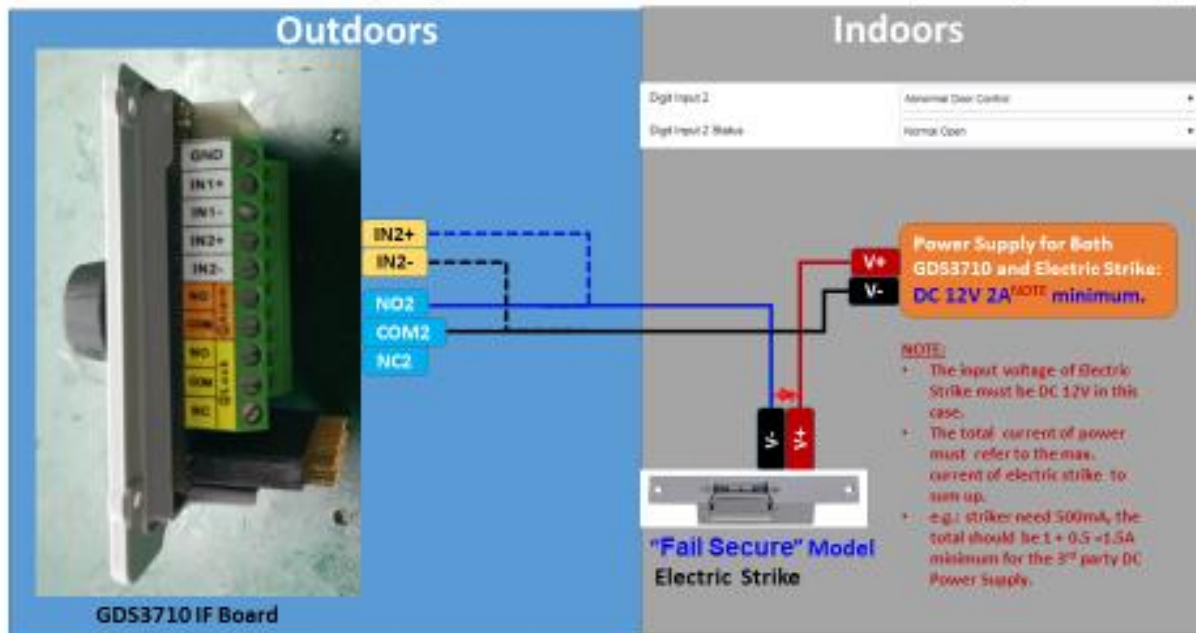
## GDS3710 Connection & Wiring Diagrams ---- "Fail Safe" Electric Strike, 3<sup>rd</sup> Party Power Supply



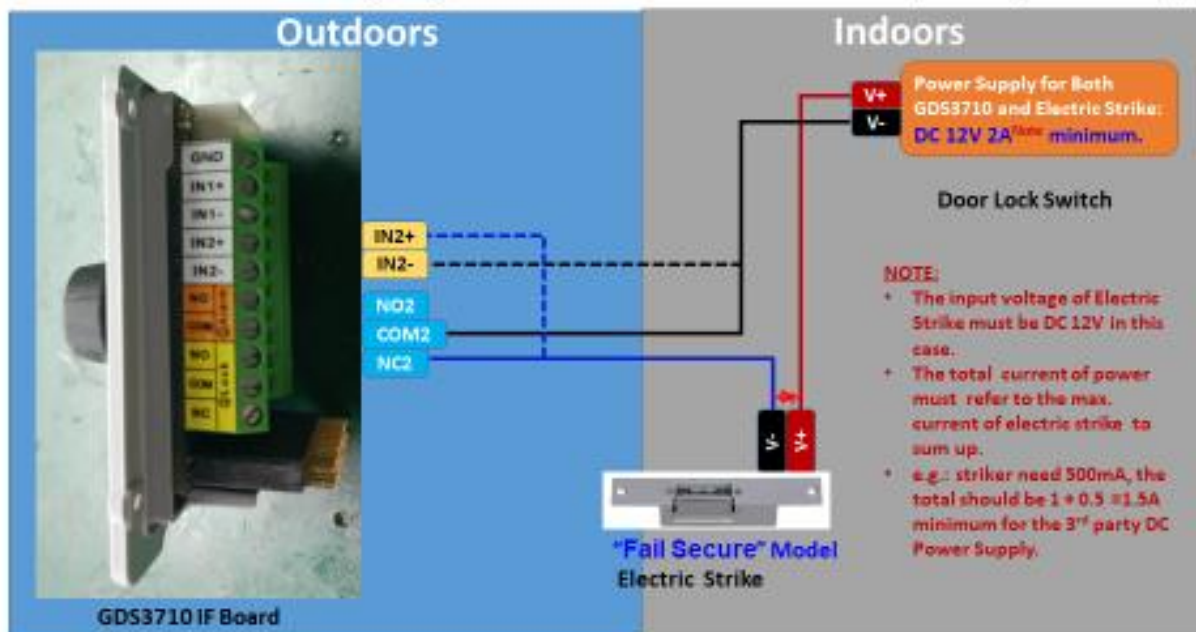
## GDS3710 Connection & Wiring Diagrams ---- "Fail Safe" Electric Strike, 3<sup>rd</sup> Party Power Supply



## GDS3710 Connection & Wiring Diagrams ---- "Fail Secure" Electric Strike, 3<sup>rd</sup> Party Power Supply

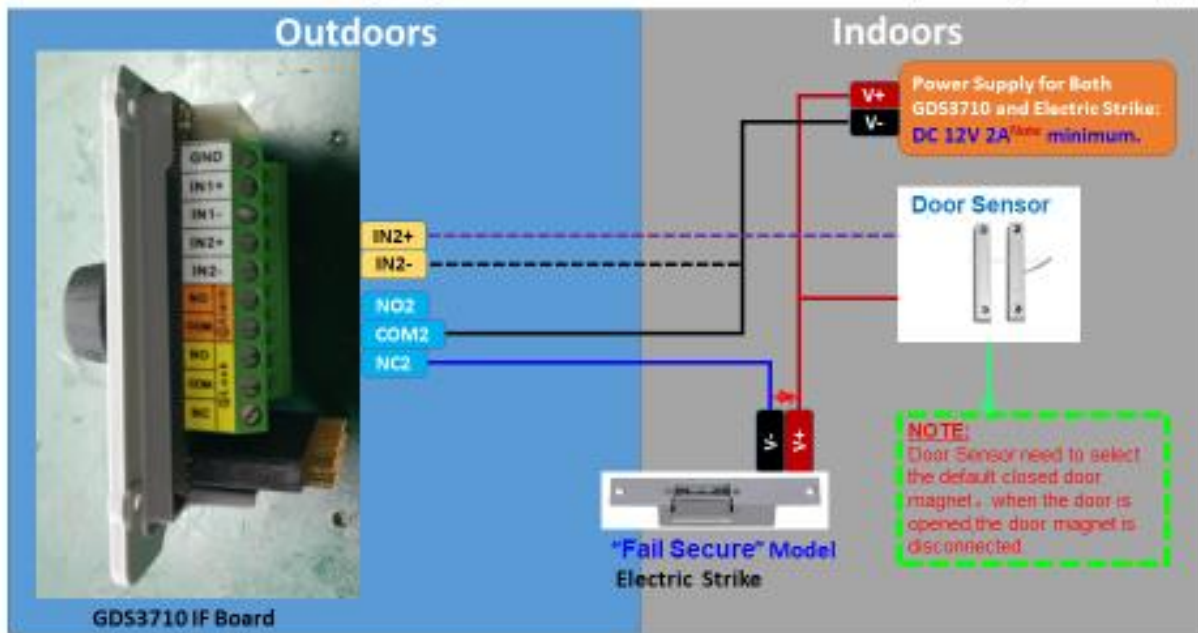


## GDS3710 Connection & Wiring Diagrams ---- "Fail Secure" Electric Strike, 3<sup>rd</sup> Party Power Supply



If 3<sup>rd</sup> party door sensor installed, customer could 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:

#### GDS3710 Connection & Wiring Diagrams ---- "Fail Secure" Electric Strike, 3<sup>rd</sup> Party Power Supply



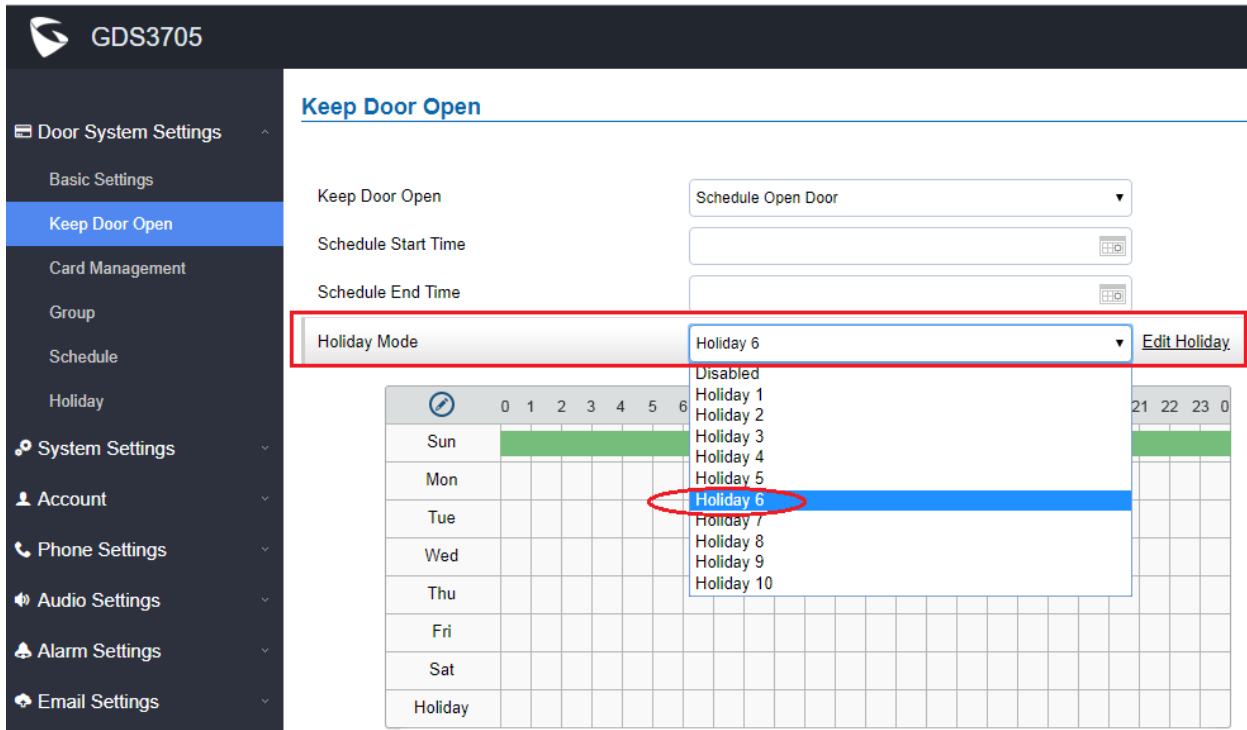
For detailed information, please refer to User Manual and Resource Center:

- GDS3705 User Manual:  
[http://www.grandstream.com/sites/default/files/Resources/GDS3705\\_UserManual.pdf](http://www.grandstream.com/sites/default/files/Resources/GDS3705_UserManual.pdf)
- HOW-TO Guide  
<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:



**GDS3705**

**Door System Settings**

- Basic Settings
- Keep Door Open**
- Card Management
- Group
- Schedule
- Holiday
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings

**Keep Door Open**

Keep Door Open: Schedule Open Door

Schedule Start Time: [Calendar Icon]

Schedule End Time: [Calendar Icon]

Holiday Mode: Holiday 6 [Edit Holiday](#)

|         | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 21 | 22 | 23 | 0 |
|---------|---|---|---|---|---|---|---|----|----|----|---|
| Sun     |   |   |   |   |   |   |   |    |    |    |   |
| Mon     |   |   |   |   |   |   |   |    |    |    |   |
| Tue     |   |   |   |   |   |   |   |    |    |    |   |
| Wed     |   |   |   |   |   |   |   |    |    |    |   |
| Thu     |   |   |   |   |   |   |   |    |    |    |   |
| Fri     |   |   |   |   |   |   |   |    |    |    |   |
| Sat     |   |   |   |   |   |   |   |    |    |    |   |
| Holiday |   |   |   |   |   |   |   |    |    |    |   |

- **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:

|  |                      |
|--|----------------------|
| <i>Device with last 6 MAC address:</i>                   | <b>33DDDD</b>        |
| <i>Decoding the last 6 MAC to digits would be:</i>       | <b>334444</b>        |
| <i>Default password is:</i>                              | <b>xwpxz6AA</b>      |
| <i>Decoding the default password to digits would be:</i> | <b>2423162426611</b> |

- 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, **xwpxz6AA**

## 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.

### FIRMWARE APPLIES TO BELOW HW VERSION ONLY

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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

|                        |  |
|------------------------|--|
| P37/P486/P586/P686     | GET:[http https]://<servername>/goform/config?cmd=get&type=sip<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>      |
| P2330/P2430/P2530/2630 | GET:[http https]://<servername>/goform/config?cmd=get&type=sip<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>      |
| P57/P58/P59/P60        | GET:[http https]://<servername>/goform/config?cmd=get&type=sip<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>      |
| P451/P452/P453/P454    | GET:[http https]://<servername>/goform/config?cmd=get&type=sip<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>      |
| P551/P552/P553/P554    | GET:[http https]://<servername>/goform/config?cmd=get&type=sip<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>      |
| P651/P652/P653/P654    | GET:[http https]://<servername>/goform/config?cmd=get&type=sip<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>      |
| P144                   | GET:[http https]://<servername>/goform/config?cmd=get&type= date<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>    |
| P8458/P285/P8459/P286  | GET:[http https]://<servername>/goform/config?cmd=get&type= upgrade<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value> |

## NEW P-VALUE

| Account 1               | Account 2               | Account 3               | Account 4               |                 |           |  |
|-------------------------|-------------------------|-------------------------|-------------------------|-----------------|-----------|--|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model Supported | Values    | Description                            |
| P37=<int>               | P486=<int>              | P586=<int>              | P686=<int>              | GDS3710/GDS3705 | <integer> | Voice Frame Per TX (1 - 64, Default 2) |
| P2330                   | P2430                   | P2530                   | P2630                   | GDS3710/GDS3705 | <integer> | Re-register Before Expiration          |
| P57/58/59/60            | P451/452/453/454        | P551/552/553/554        | P651/652/653/654        | GDS3710/GDS3705 | String    | Preferred Audio Code                   |

- 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

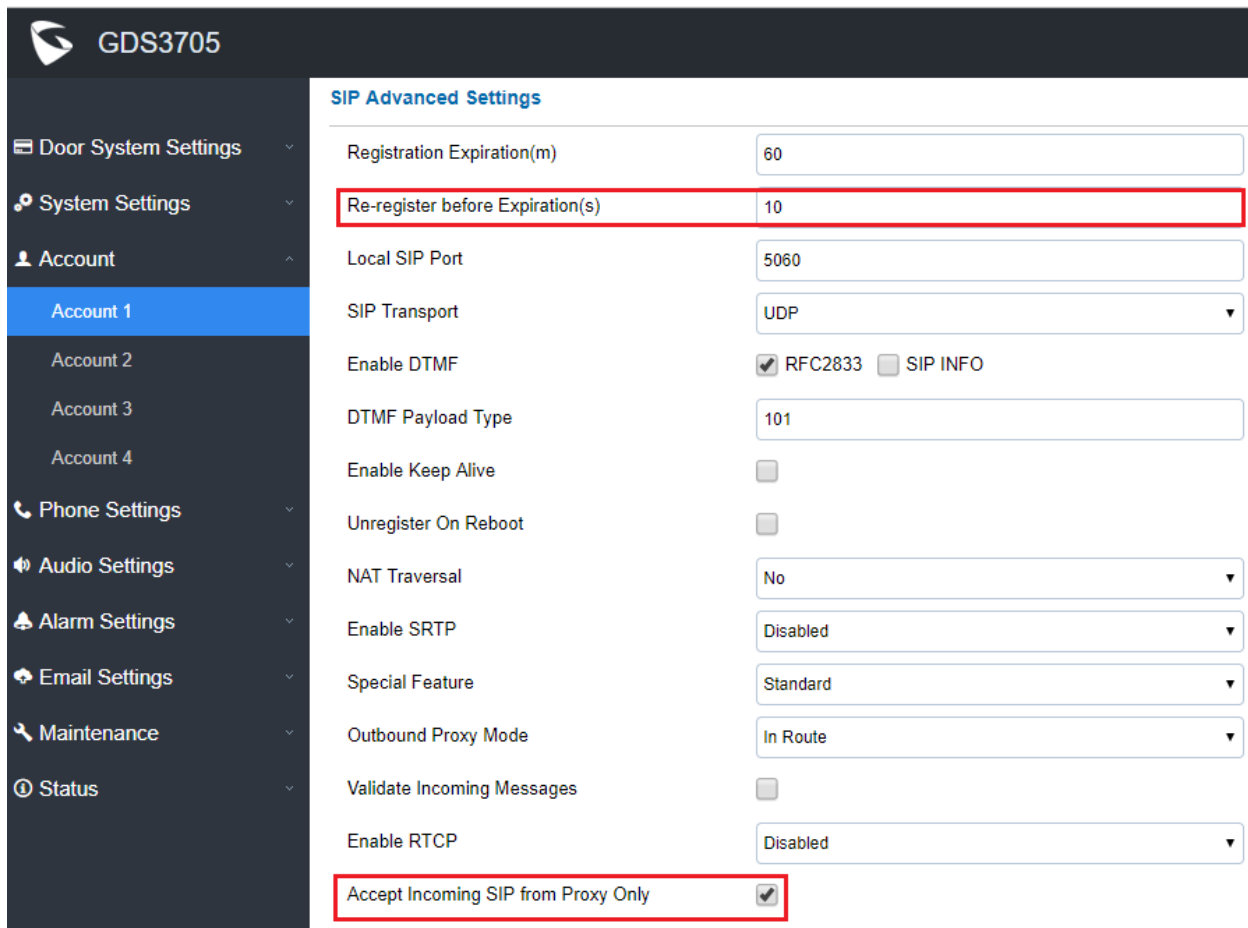
This section lists major new features and describes how to use them from the user's point of view.

### 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):



**GDS3705**

- Door System Settings
- System Settings
- Account
  - Account 1**
  - Account 2
  - Account 3
  - Account 4
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

#### SIP Advanced Settings

|  |   |
|--|---|
| Registration Expiration(m)                 | 60  |
| <b>Re-register before Expiration(s)</b>    | <b>10</b>   |
| Local SIP Port                             | 5060  |
| SIP Transport                              | UDP   |
| Enable DTMF                                | <input checked="" type="checkbox"/> RFC2833 <input type="checkbox"/> SIP INFO |
| DTMF Payload Type                          | 101   |
| Enable Keep Alive                          | <input type="checkbox"/>  |
| Unregister On Reboot                       | <input type="checkbox"/>  |
| NAT Traversal                              | No  |
| Enable SRTP                                | Disabled  |
| Special Feature                            | Standard  |
| Outbound Proxy Mode                        | In Route  |
| Validate Incoming Messages                 | <input type="checkbox"/>  |
| Enable RTCP                                | Disabled  |
| <b>Accept Incoming SIP from Proxy Only</b> | <input checked="" type="checkbox"/>   |

- Functionality**

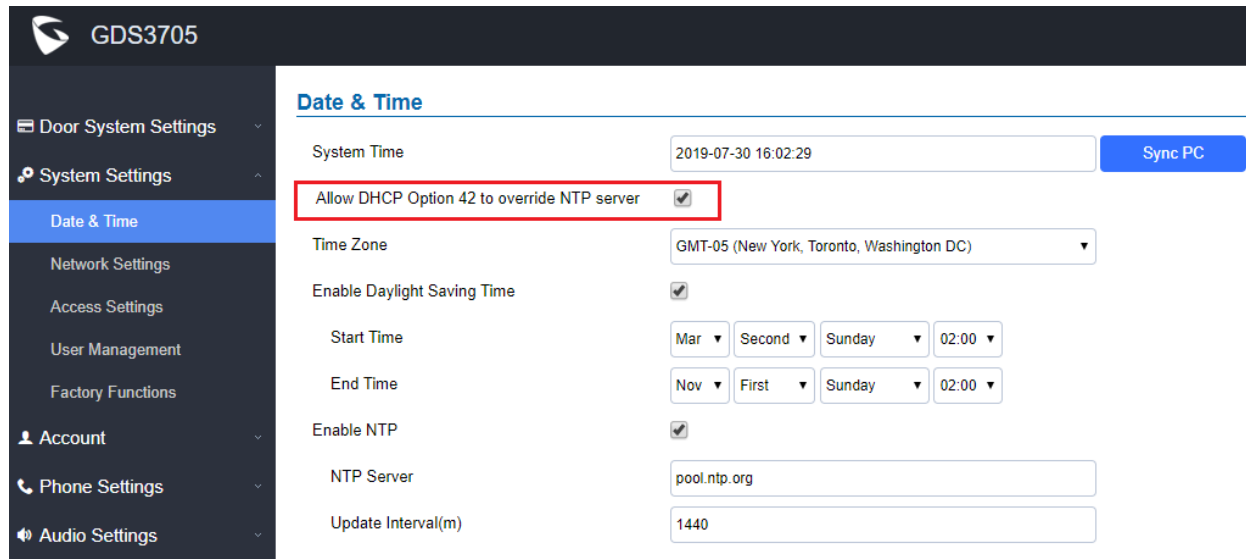
This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can configure the device to the customers.

## 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:



**GDS3705**

**Date & Time**

System Time: 2019-07-30 16:02:29 Sync PC

**Allow DHCP Option 42 to override NTP server** ☒

Time Zone: GMT-05 (New York, Toronto, Washington DC) ▼

Enable Daylight Saving Time ☒

Start Time: Mar ▼ Second ▼ Sunday ▼ 02:00 ▼

End Time: Nov ▼ First ▼ Sunday ▼ 02:00 ▼

Enable NTP ☒

NTP Server: pool.ntp.org

Update Interval(m): 1440

- **Functionality**

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

### **NOTE:**

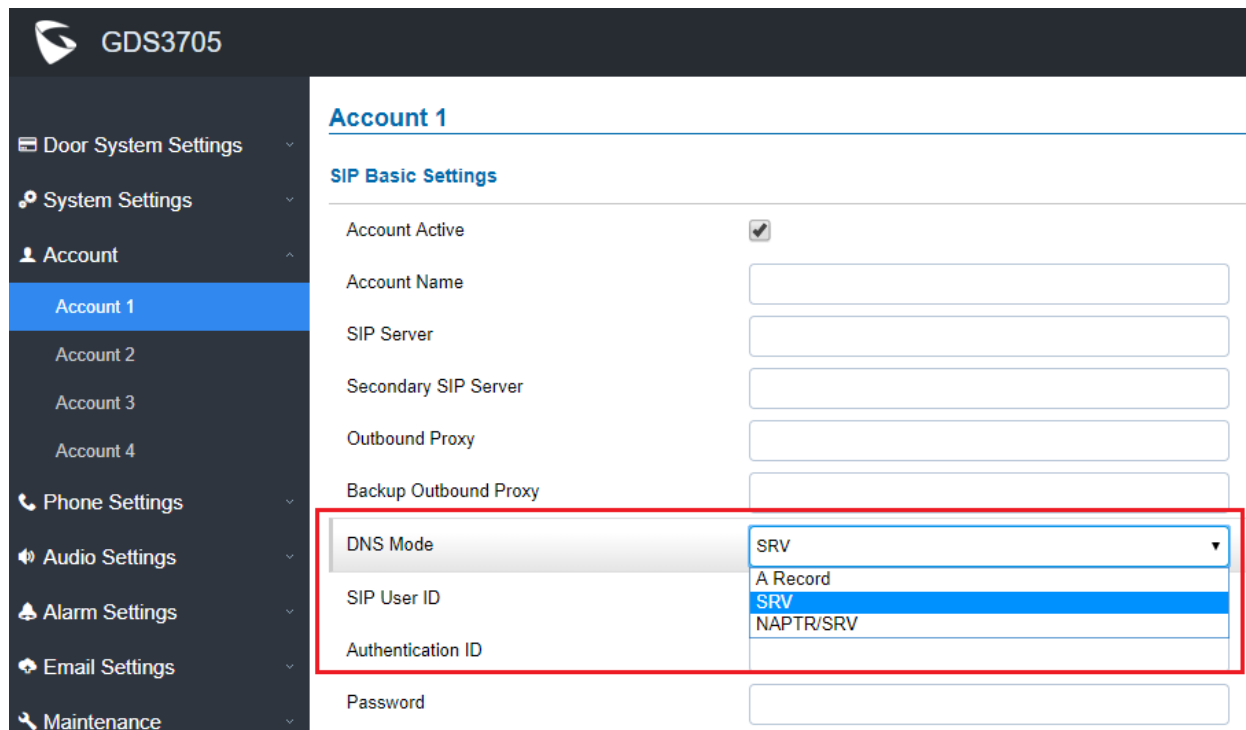
- This feature is designed for Service Provider, or Service Technician or Installers.
- End users without necessary knowledge are strongly discouraged to use it, avoiding incorrect system time caused by misconfiguration.

## 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)



**GDS3705**

**Account 1**

**SIP Basic Settings**

Account Active ☒

Account Name

SIP Server

Secondary SIP Server

Outbound Proxy

Backup Outbound Proxy

DNS Mode 

- SRV
- A Record
- SRV**
- NAPTR/SRV

SIP User ID

Authentication ID

Password

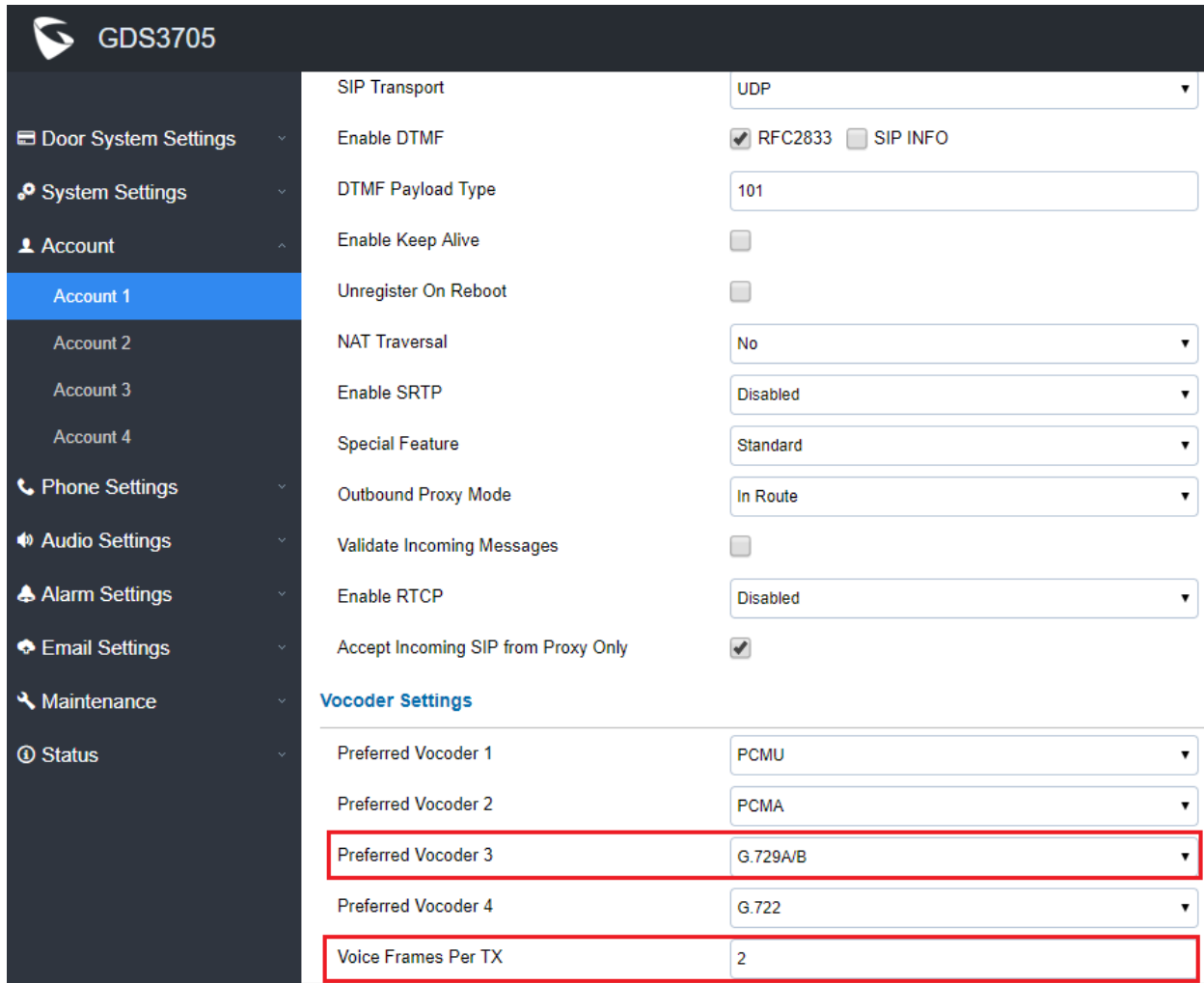
- **Functionality**

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):



| GDS3705              |  |
|----------------------|--|
| Door System Settings | SIP Transport: UDP   |
| System Settings      | Enable DTMF: <input checked="" type="checkbox"/> RFC2833 <input type="checkbox"/> SIP INFO |
| Account              | DTMF Payload Type: 101   |
| Account 1            | Enable Keep Alive: <input type="checkbox"/>  |
| Account 2            | Unregister On Reboot: <input type="checkbox"/>   |
| Account 3            | NAT Traversal: No  |
| Account 4            | Enable SRTP: Disabled  |
| Phone Settings       | Special Feature: Standard  |
| Audio Settings       | Outbound Proxy Mode: In Route  |
| Alarm Settings       | Validate Incoming Messages: <input type="checkbox"/>                                       |
| Email Settings       | Enable RTCP: Disabled  |
| Maintenance          | Accept Incoming SIP from Proxy Only: <input checked="" type="checkbox"/>                   |
| Status               | <b>Vocoder Settings</b>  |
| Preferred Vocoder 1  | PCMU   |
| Preferred Vocoder 2  | PCMA   |
| Preferred Vocoder 3  | G.729AB  |
| Preferred Vocoder 4  | G.722  |
| Voice Frames Per TX  | 2  |

- Functionality**

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

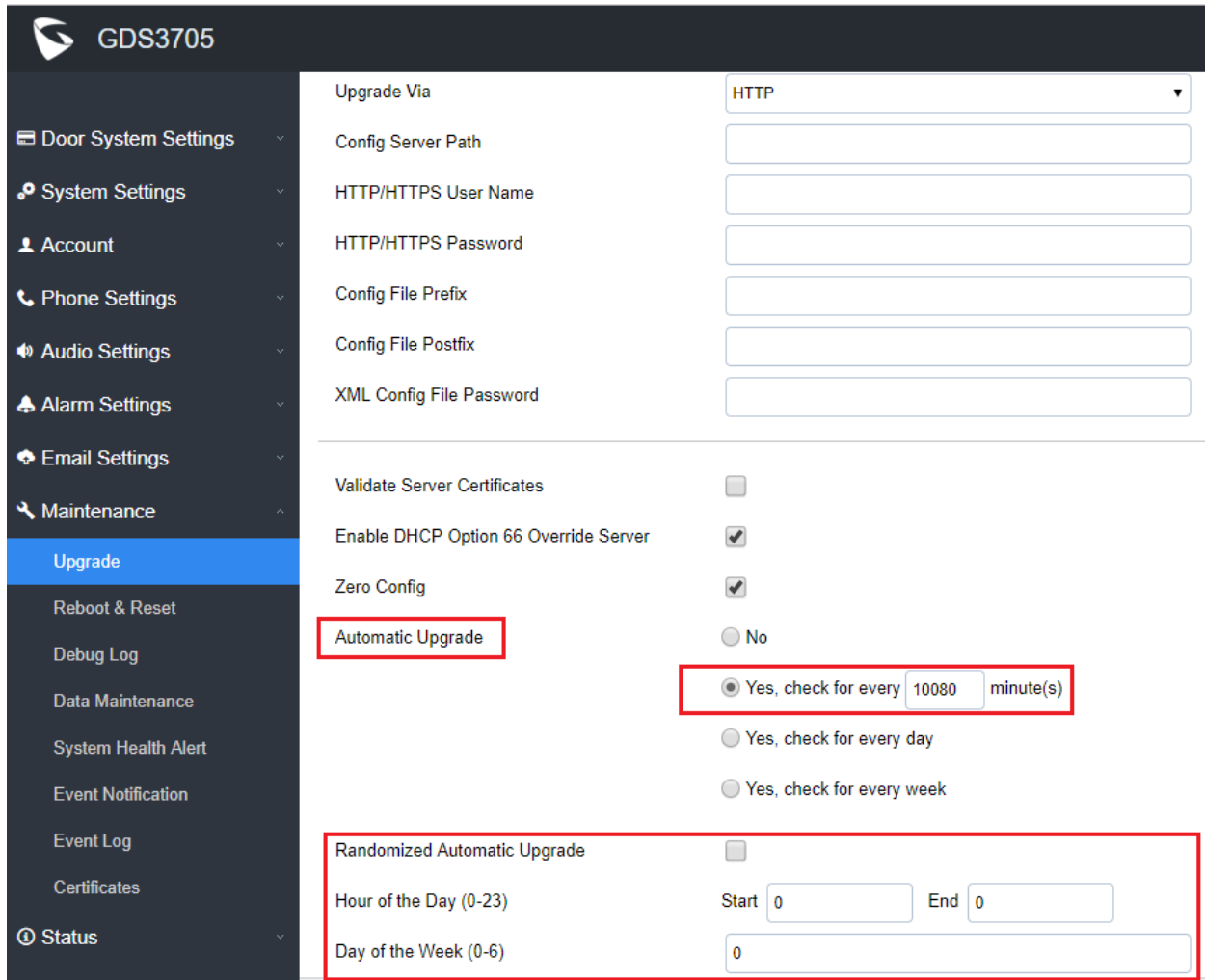
Added “Voice Frame Per TX” to allow ISTP customers configure the VoIP more efficiently.

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:



**GDS3705**

Upgrade Via: HTTP

Config Server Path:

HTTP/HTTPS User Name:

HTTP/HTTPS Password:

Config File Prefix:

Config File Postfix:

XML Config File Password:

---

Validate Server Certificates: ☐

Enable DHCP Option 66 Override Server: ☒

Zero Config: ☒

**Automatic Upgrade**: ☐ No

☒ Yes, check for every  minute(s)

☐ Yes, check for every day

☐ Yes, check for every week

---

**Randomized Automatic Upgrade**: ☐

Hour of the Day (0-23): Start  End

Day of the Week (0-6):

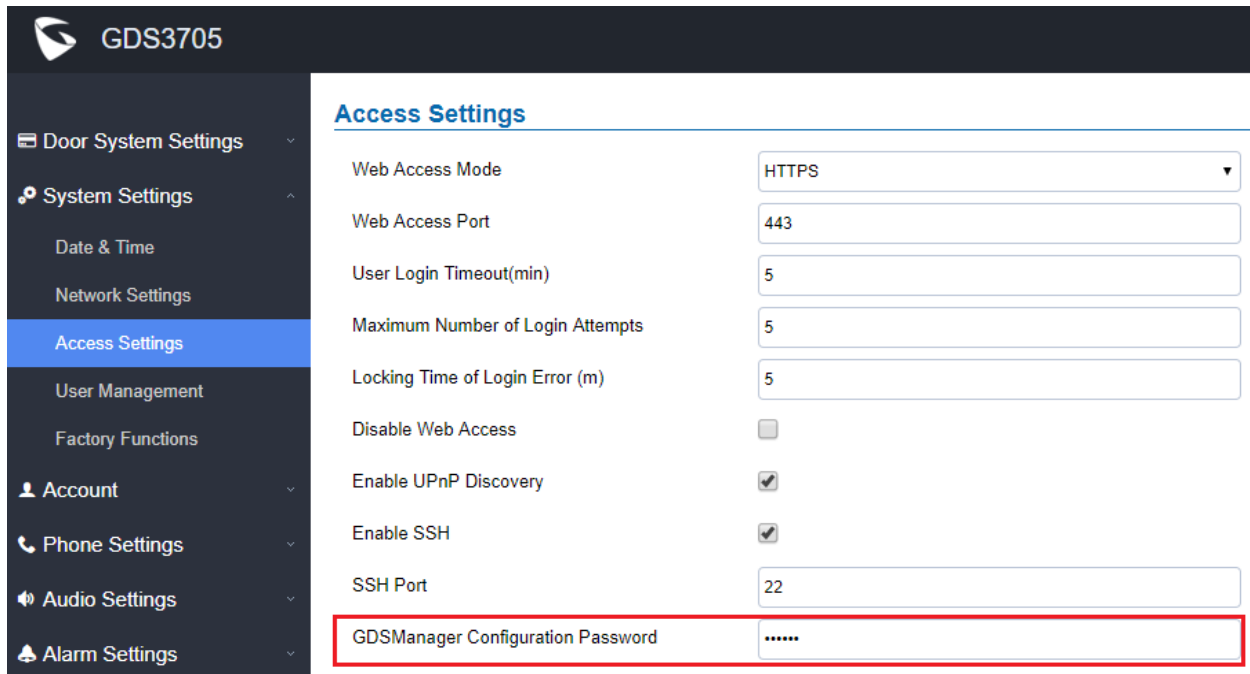
- Functionality**

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:



The screenshot shows the GDS3705 web UI interface. On the left is a sidebar menu with the following items: Door System Settings, System Settings (expanded), Date & Time, Network Settings, Access Settings (highlighted in blue), User Management, Factory Functions, Account, Phone Settings, Audio Settings, and Alarm Settings. The main content area is titled 'Access Settings' and contains the following configuration items:

| Parameter                         | Value                               |
|-----------------------------------|-------------------------------------|
| Web Access Mode                   | HTTPS                               |
| Web Access Port                   | 443                                 |
| User Login Timeout(min)           | 5                                   |
| Maximum Number of Login Attempts  | 5                                   |
| Locking Time of Login Error (m)   | 5                                   |
| Disable Web Access                | <input type="checkbox"/>            |
| Enable UPnP Discovery             | <input checked="" type="checkbox"/> |
| Enable SSH                        | <input checked="" type="checkbox"/> |
| SSH Port                          | 22                                  |
| GDSManager Configuration Password | *****                               |

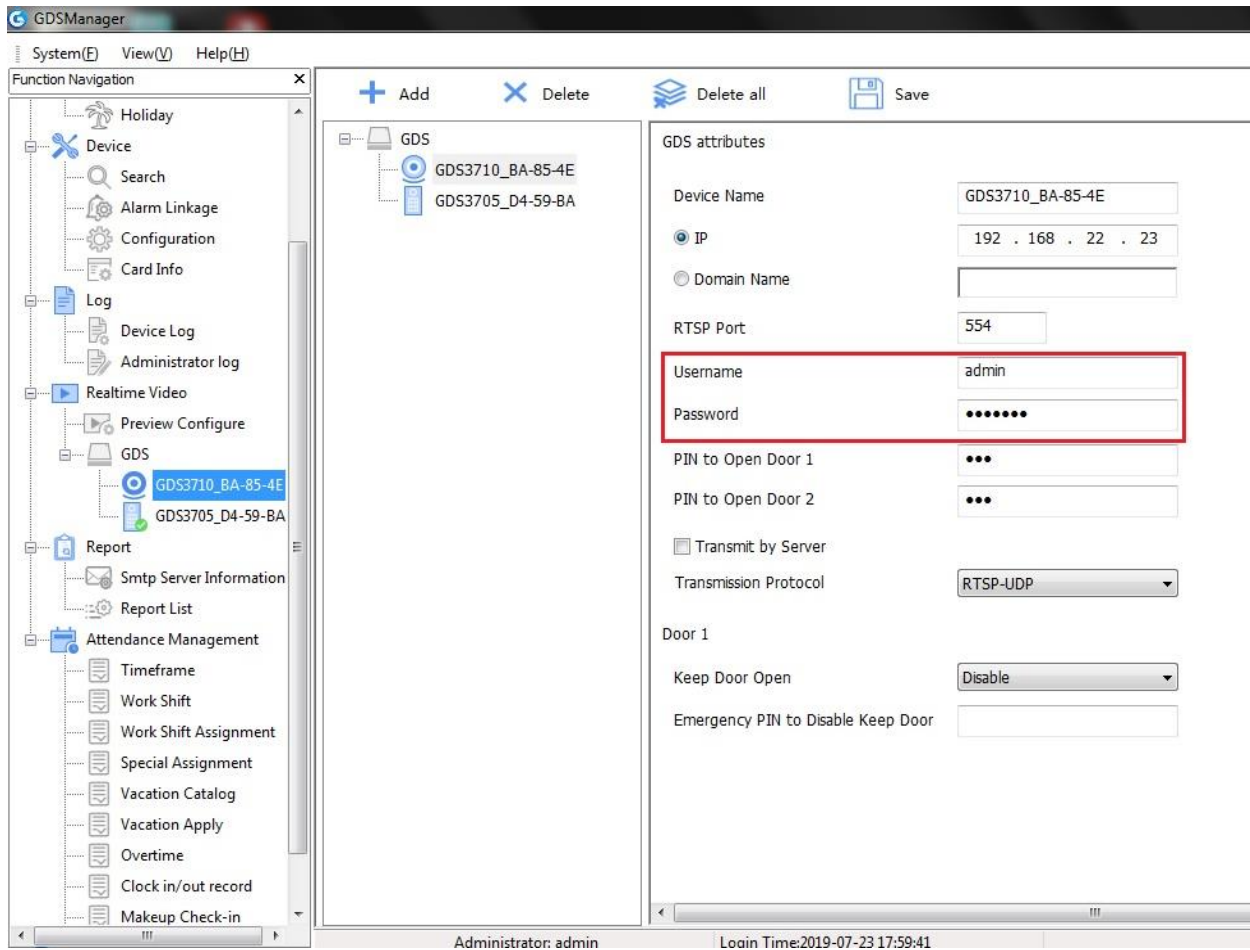
The 'GDSManager Configuration Password' field is highlighted with a red border in the original image.

- **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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### BUG FIX

- Fixed only the 1<sup>st</sup> 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 2<sup>nd</sup> 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 1<sup>st</sup> 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/<br>P79/P496/P596/P696  | GET:[http https]://<servername>/goform/config?cmd=get&type=sip<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>               |
| P15473  | GET:[http https]://<servername>/goform/config?cmd=get&type= access<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>           |
| P15436/P15433/P15450/<br>P15460/P15461/P15462/<br>P15465/P15466/P15467/<br>P15468/P15470/P15498 | GET:[http https]://<servername>/goform/config?cmd=get&type= door<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>             |
| P15451/P15452   | GET:[http https]://<servername>/goform/config?cmd=get&type= event<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>            |
| P15455/P15456/P15457/<br>P15458/P15459/P15472   | GET:[http https]://<servername>/goform/config?cmd=get&type= sch_open_door<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>    |
| P15490/P15491/P15492/<br>P15493/P15494/P15495/<br>P15496  | GET:[http https]://<servername>/goform/config?cmd=get&type= sys_health_alert<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value> |
| P15499  | GET:[http https]://<servername>/goform/config?cmd=get&type= audio<br>SET:[http https]://<servername>/goform/config?cmd=set&Pname=<value>            |

## NEW P-VALUE

| Account 1               | Account 2               | Account 3               | Account 4               |                 |           |  |
|-------------------------|-------------------------|-------------------------|-------------------------|-----------------|-----------|--|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model Supported | Values    | Description                                |
| P79=<int>               | P496=<int>              | P596=<int>              | P696=<int>              | GDS3710/GDS3705 | <integer> | DTMF<br>Payload Type                       |
| P2392                   | P2492                   | P2592                   | P2692                   | GDS3710/GDS3705 | <0 1 2>   | Enable RTCP<br>0:<br>1: RTCP<br>2: RTCP-XR |

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

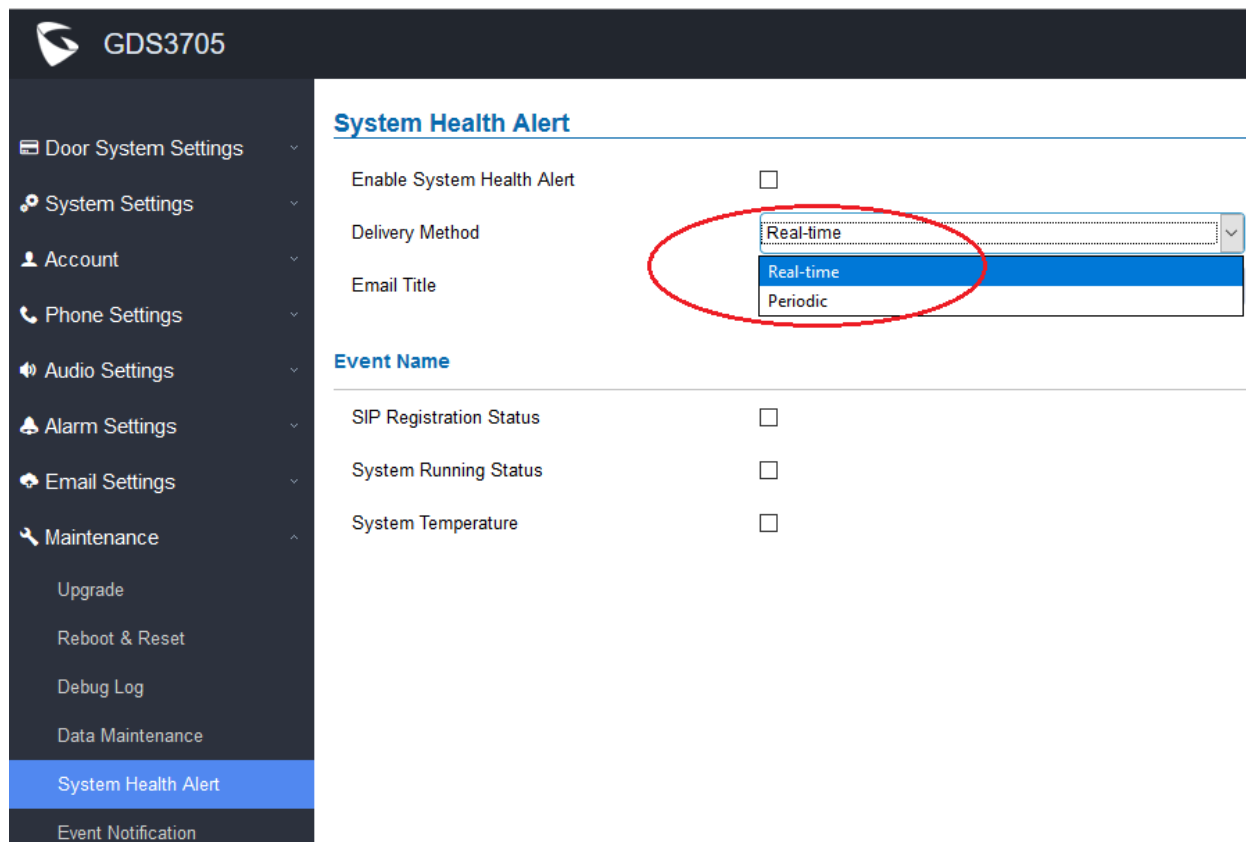
This section lists major new features and describes how to use them from the user's point of view.

### 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**

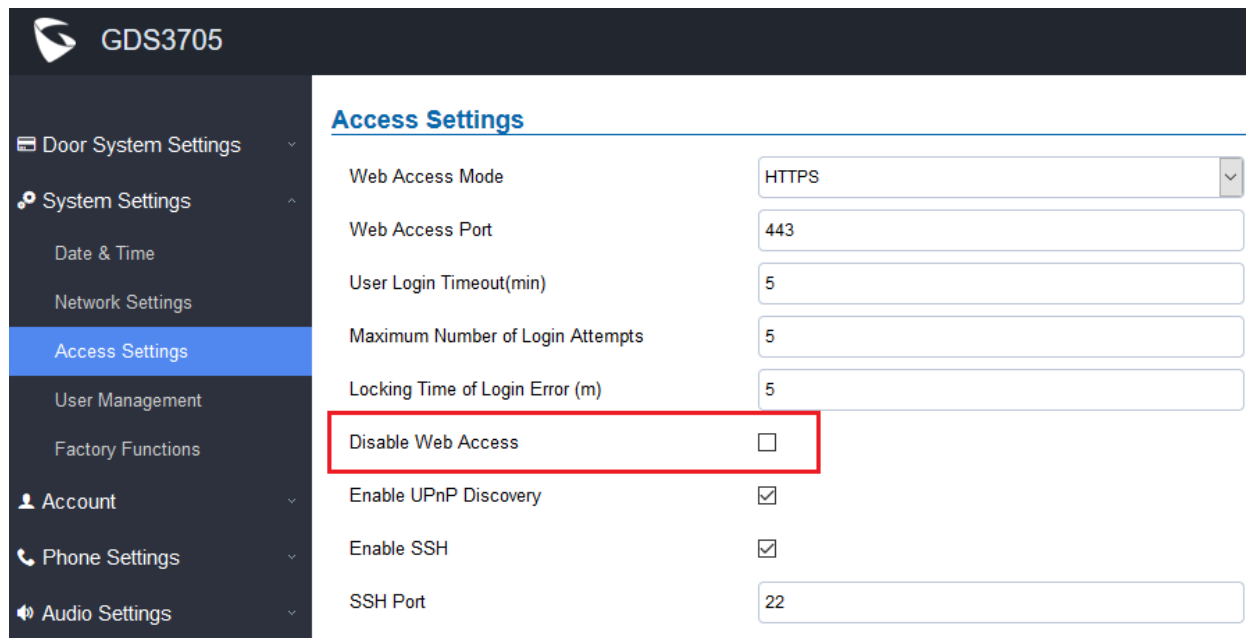
This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can configure the device to send out system health report to monitor the system health of the device to improve the service.

## 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:



The screenshot shows the webUI for a GDS3705 device. The left sidebar contains a menu with options: Door System Settings, System Settings (expanded), Date & Time, Network Settings, Access Settings (highlighted), User Management, Factory Functions, Account, Phone Settings, and Audio Settings. The main content area is titled 'Access Settings' and contains the following configuration items:

| Setting                          | Value                               |
|----------------------------------|-------------------------------------|
| Web Access Mode                  | HTTPS                               |
| Web Access Port                  | 443                                 |
| User Login Timeout(min)          | 5                                   |
| Maximum Number of Login Attempts | 5                                   |
| Locking Time of Login Error (m)  | 5                                   |
| Disable Web Access               | <input type="checkbox"/>            |
| Enable UPnP Discovery            | <input checked="" type="checkbox"/> |
| Enable SSH                       | <input checked="" type="checkbox"/> |
| SSH Port                         | 22                                  |

- 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:**

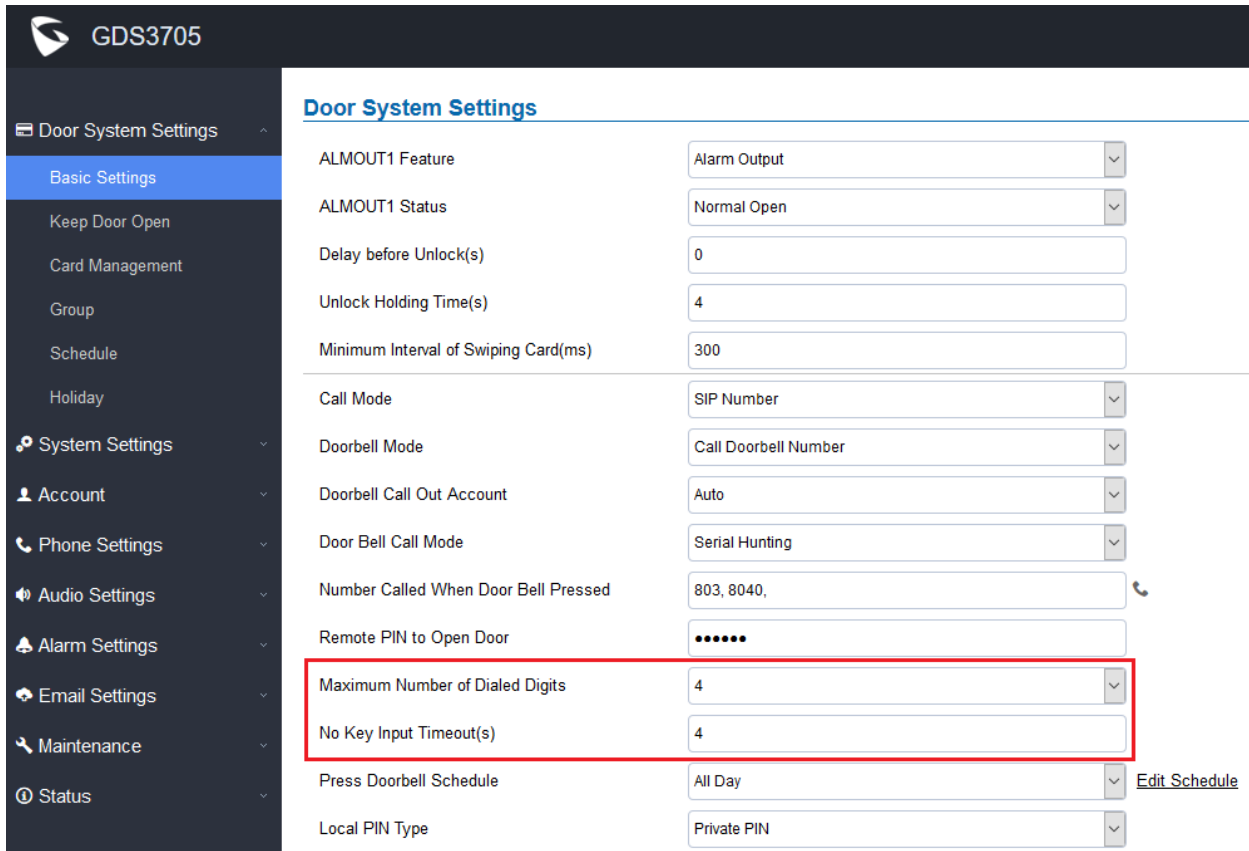
- This feature is designed for Service Provider, or Service Technician or Installers.
- End users without necessary knowledge are strongly discouraged to use it, avoiding lost access to the UI of the device.
- Once the webUI access is disabled, the UI can only be enabled again by either Provisioning, 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 LOST 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:



The screenshot shows the GDS3705 webUI interface. On the left is a sidebar menu with options: Door System Settings (expanded), Basic Settings (selected), Keep Door Open, Card Management, Group, Schedule, Holiday, System Settings, Account, Phone Settings, Audio Settings, Alarm Settings, Email Settings, Maintenance, and Status. The main content area is titled 'Door System Settings' and contains various configuration fields. A red rectangle highlights the 'Maximum Number of Dialed Digits' and 'No Key Input Timeout(s)' fields, both set to 4.

| Door System Settings                 |  |
|--------------------------------------|--|
| ALMOUT1 Feature                      | Alarm Output   |
| ALMOUT1 Status                       | Normal Open  |
| Delay before Unlock(s)               | 0  |
| Unlock Holding Time(s)               | 4  |
| Minimum Interval of Swiping Card(ms) | 300  |
| Call Mode                            | SIP Number   |
| Doorbell Mode                        | Call Doorbell Number   |
| Doorbell Call Out Account            | Auto   |
| Door Bell Call Mode                  | Serial Hunting   |
| Number Called When Door Bell Pressed | 803, 8040,  |
| Remote PIN to Open Door              | •••••  |
| Maximum Number of Dialed Digits      | 4  |
| No Key Input Timeout(s)              | 4  |
| Press Doorbell Schedule              | All Day <a href="#">Edit Schedule</a>  |
| Local PIN Type                       | Private PIN  |

- **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 be sending out and no “#” required to end the input.

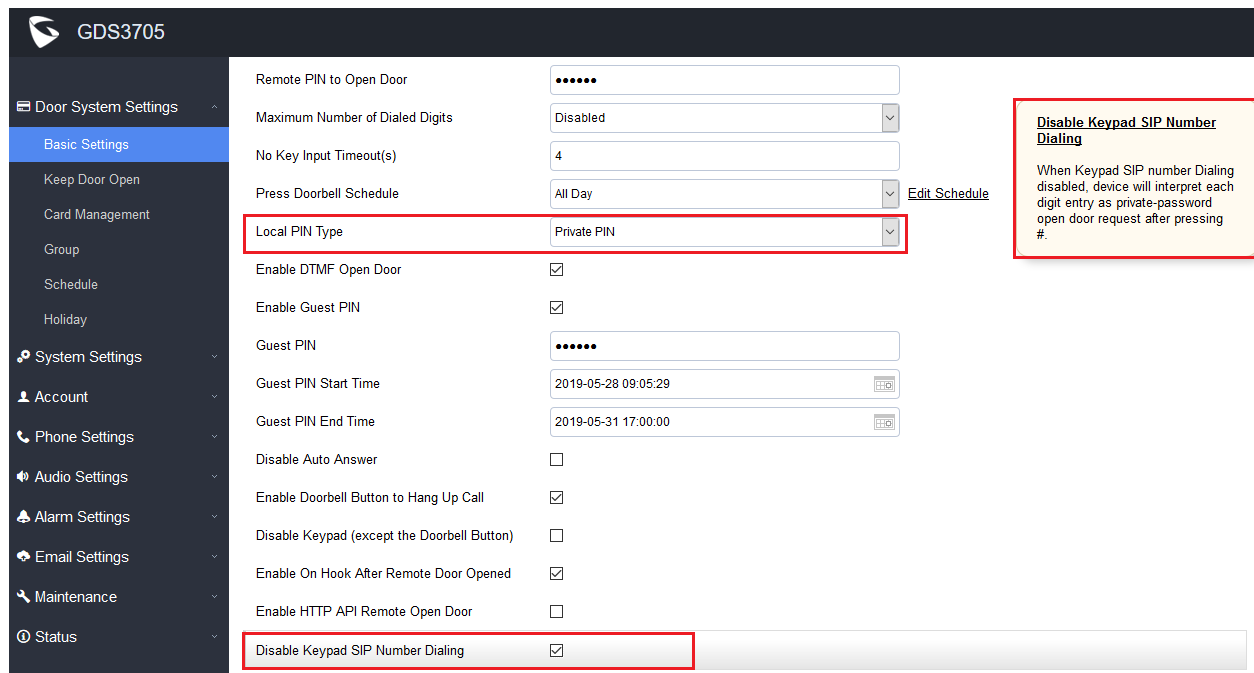
This is more a phone feature allowing users to simulate the traditional analogue phone dialing method.

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:



**GDS3705**

Door System Settings

Basic Settings

Keep Door Open

Card Management

Group

Schedule

Holiday

System Settings

Account

Phone Settings

Audio Settings

Alarm Settings

Email Settings

Maintenance

Status

Remote PIN to Open Door: .....

Maximum Number of Dialed Digits: Disabled

No Key Input Timeout(s): 4

Press Doorbell Schedule: All Day [Edit Schedule](#)

Local PIN Type: Private PIN

Enable DTMF Open Door: ☒

Enable Guest PIN: ☒

Guest PIN: .....

Guest PIN Start Time: 2019-05-28 09:05:29

Guest PIN End Time: 2019-05-31 17:00:00

Disable Auto Answer: ☐

Enable Doorbell Button to Hang Up Call: ☒

Disable Keypad (except the Doorbell Button): ☐

Enable On Hook After Remote Door Opened: ☒

Enable HTTP API Remote Open Door: ☐

Disable Keypad SIP Number Dialing: ☒

**Disable Keypad SIP Number Dialing**

When Keypad SIP number Dialing disabled, device will interpret each digit entry as private-password open door request after pressing #.

### • 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 make 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:**

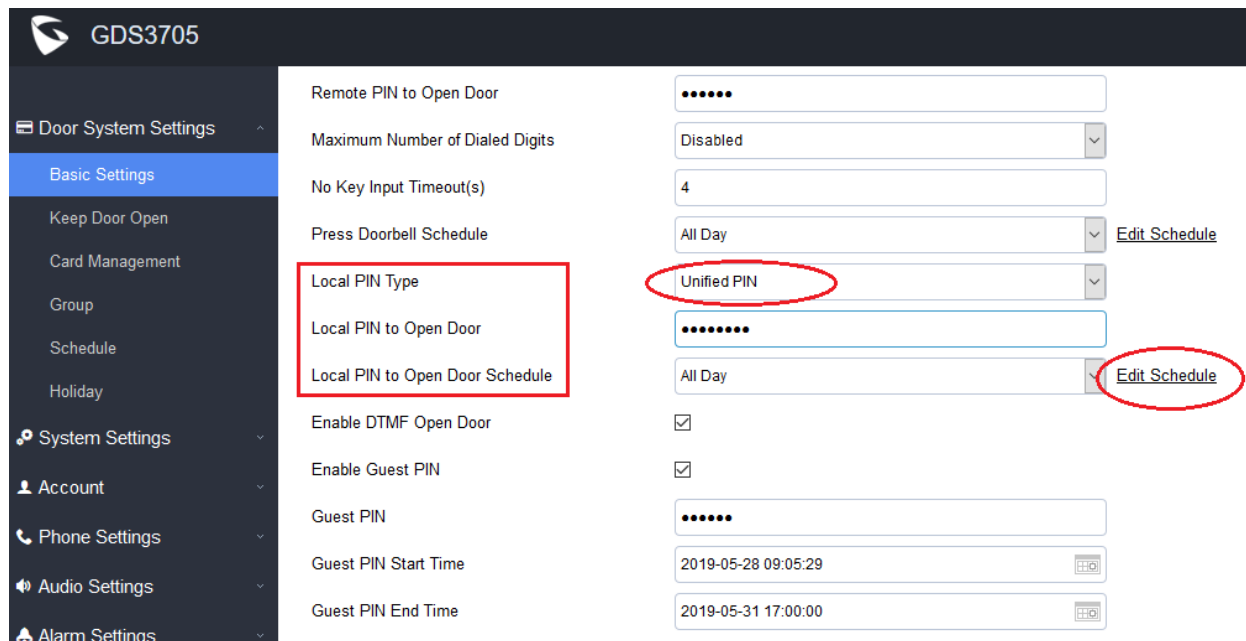
Following settings are required to make this feature working:

- “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:



The screenshot shows the GDS3705 web configuration interface. On the left is a sidebar menu with options: Door System Settings, Basic Settings, Keep Door Open, Card Management, Group, Schedule, Holiday, System Settings, Account, Phone Settings, Audio Settings, and Alarm Settings. The 'Door System Settings' section is expanded, showing 'Local PIN Type' (highlighted with a red box) and 'Local PIN to Open Door Schedule' (also highlighted with a red box). The 'Local PIN Type' dropdown is set to 'Unified PIN' (circled in red). Below it, the 'Local PIN to Open Door Schedule' is set to 'All Day' (circled in red), with an 'Edit Schedule' link next to it. Other settings visible include 'Remote PIN to Open Door' (masked with dots), 'Maximum Number of Dialed Digits' (Disabled), 'No Key Input Timeout(s)' (4), 'Press Doorbell Schedule' (All Day), 'Enable DTMF Open Door' (checked), 'Enable Guest PIN' (checked), 'Guest PIN' (masked with dots), 'Guest PIN Start Time' (2019-05-28 09:05:29), and 'Guest PIN End Time' (2019-05-31 17:00:00).

- **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”.

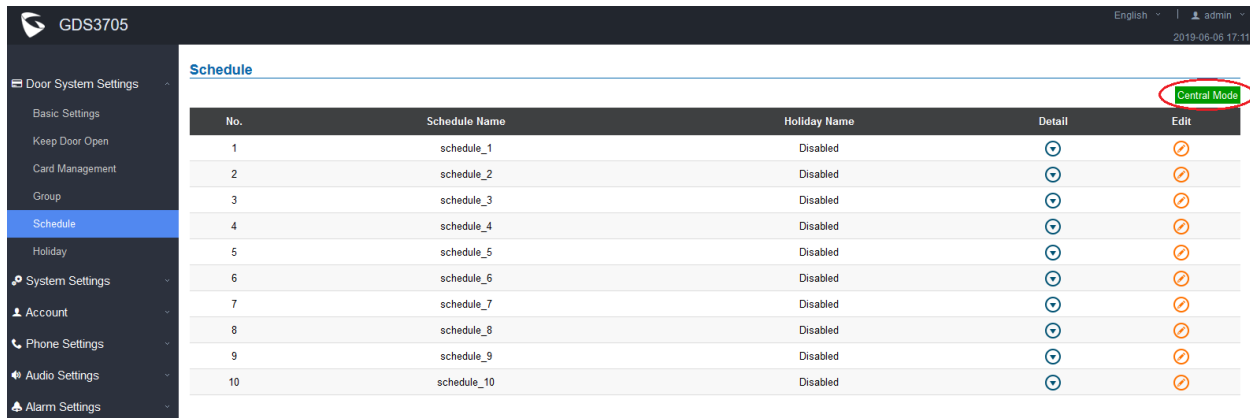
With this enhancement, users can now configure the “Schedule” to the “Unified PIN” so that the universal PIN also can be controlled by the Schedule, therefore door access can be controlled accordingly in the preconfigured time schedule.

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:**

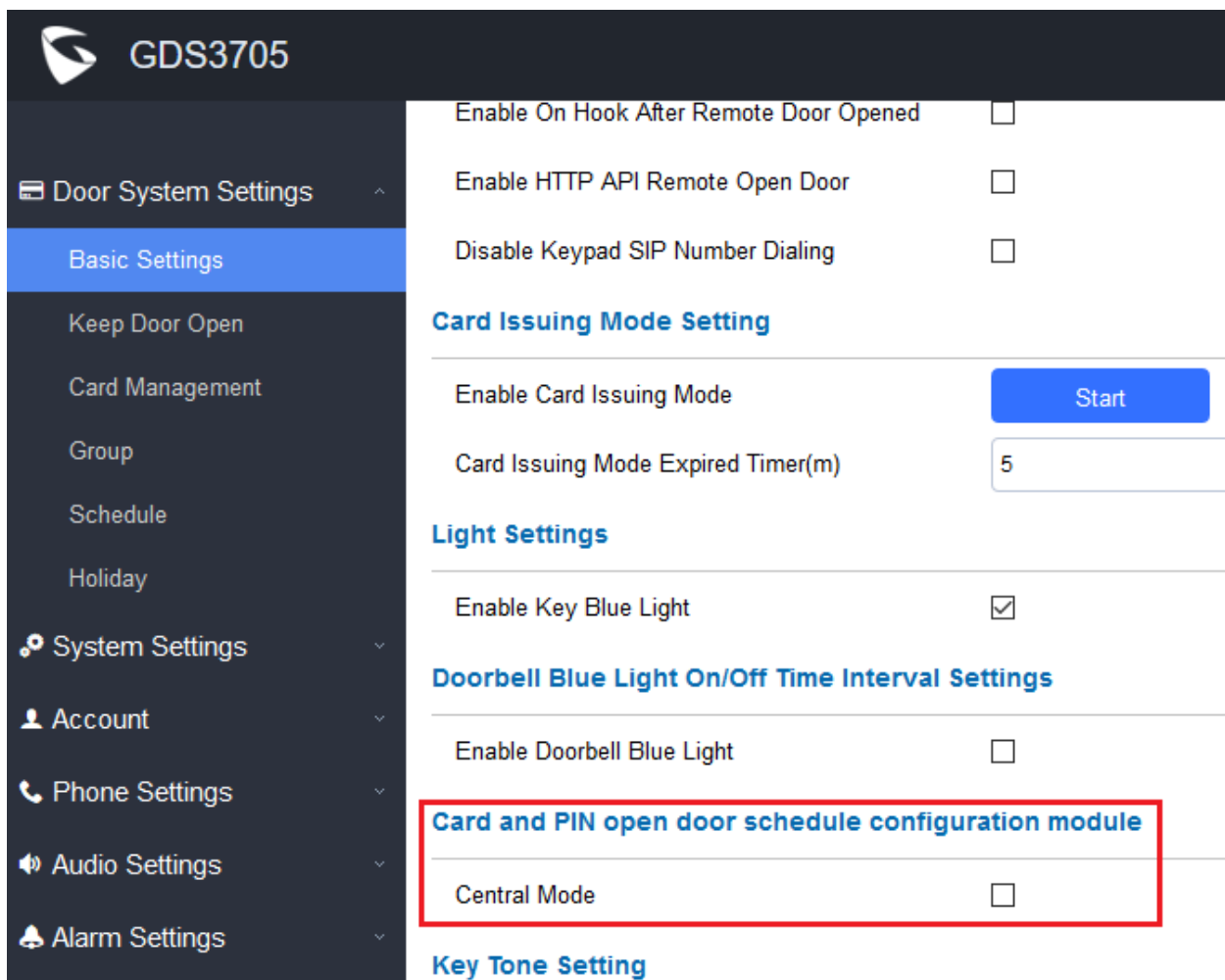
- The schedule can ONLY be edited when “Central Mode” disabled.
- If “Central Mode” enabled, the “Schedule” page is only viable and NOT editable. A green “Central Model” label will display in top right corner of the UI. (See below).
- When “Central Mode” enabled, the “Schedule” will be edited in GDSManager 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:



| No. | Schedule Name | Holiday Name | Detail | Edit |
|-----|---------------|--------------|--------|------|
| 1   | schedule_1    | Disabled     | ⌵      | ✗    |
| 2   | schedule_2    | Disabled     | ⌵      | ✗    |
| 3   | schedule_3    | Disabled     | ⌵      | ✗    |
| 4   | schedule_4    | Disabled     | ⌵      | ✗    |
| 5   | schedule_5    | Disabled     | ⌵      | ✗    |
| 6   | schedule_6    | Disabled     | ⌵      | ✗    |
| 7   | schedule_7    | Disabled     | ⌵      | ✗    |
| 8   | schedule_8    | Disabled     | ⌵      | ✗    |
| 9   | schedule_9    | Disabled     | ⌵      | ✗    |
| 10  | schedule_10   | Disabled     | ⌵      | ✗    |

When “Central Mode” NOT enabled, click the “Edit” on the “Schedule” UI will come out below screen to allow user to edit the schedule:



**Enable On Hook After Remote Door Opened** ☐

**Enable HTTP API Remote Open Door** ☐

**Disable Keypad SIP Number Dialing** ☐

**Card Issuing Mode Setting**

**Enable Card Issuing Mode** Start

**Card Issuing Mode Expired Timer(m)**

**Light Settings**

**Enable Key Blue Light** ☒

**Doorbell Blue Light On/Off Time Interval Settings**

**Enable Doorbell Blue Light** ☐

**Card and PIN open door schedule configuration module**

**Central Mode** ☐

**Key Tone Setting**

GDS3705
English | admin | 2019-06-06 10:2

Door System Settings  
 Basic Settings  
 Keep Door Open  
 Card Management  
 Group  
**Schedule**  
 Holiday  
 System Settings  
 Account  
 Phone Settings  
 Audio Settings

### Schedule

| No. | Schedule Name | Holiday Name | Detail | Edit |
|-----|---------------|--------------|--------|------|
| 1   | schedule1     | Disabled     |        |      |
| 2   | schedule2     | Disabled     |        |      |
| 3   | schedule3     | Disabled     |        |      |
| 4   | schedule4     | Disabled     |        |      |
| 5   | schedule5     | Disabled     |        |      |
| 6   | schedule6     | Disabled     |        |      |
| 7   | schedule7     | Disabled     |        |      |
| 8   | schedule8     | Disabled     |        |      |
| 9   | schedule9     | Disabled     |        |      |
| 10  | schedule10    | Disabled     |        |      |

**Modify Schedule**
✕

Schedule Name

schedule\_1

Holiday Mode

Holiday 1 ▼

| Day        | Period  | Start Time | End Time | Start Time | End Time |
|------------|---------|------------|----------|------------|----------|
| Sun        | Period1 | 00         | 00       | 00         | 00       |
| <b>Mon</b> | Period2 | 07         | 00       | 18         | 00       |
| Tue        | Period3 | 00         | 00       | 00         | 00       |
| Wed        | Period4 | 00         | 00       | 00         | 00       |
| Thu        | Period5 | 00         | 00       | 00         | 00       |
| Fri        | Period6 | 00         | 00       | 00         | 00       |
| Sat        | Period7 | 00         | 00       | 00         | 00       |
| Holiday    | Period8 | 00         | 00       | 00         | 00       |

Copy  
 ☐ Sun  
 ☒ Mon  
 ☒ Tue  
 ☒ Wed  
 ☒ Thu  
 ☒ Fri  
 ☐ Sat  
 ☐ Holiday  
 ☐ Select All

Save

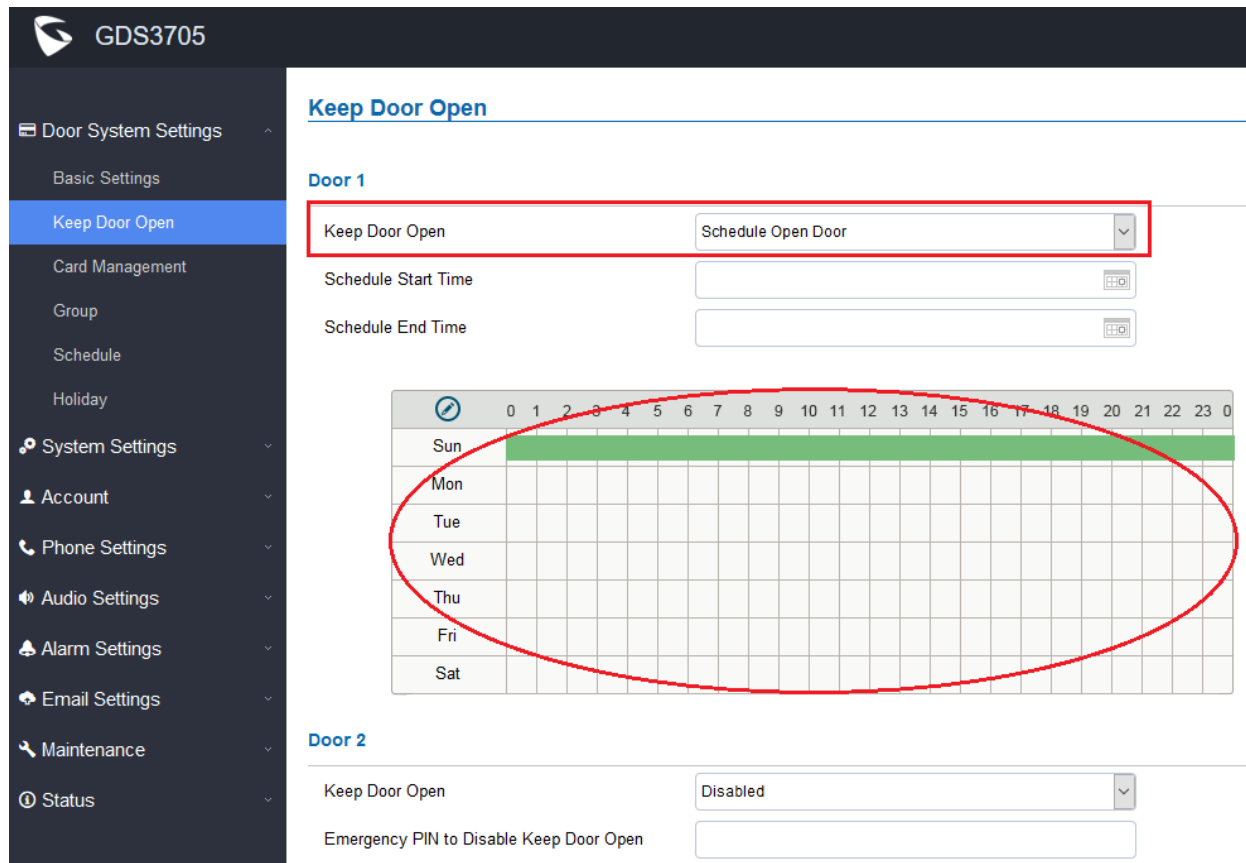
Cancel

## 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:



**GDS3705**

**Door System Settings**

- Basic Settings
- Keep Door Open**
- Card Management
- Group
- Schedule
- Holiday
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

### Keep Door Open

#### Door 1

Keep Door Open: Schedule Open Door

Schedule Start Time:

Schedule End Time:

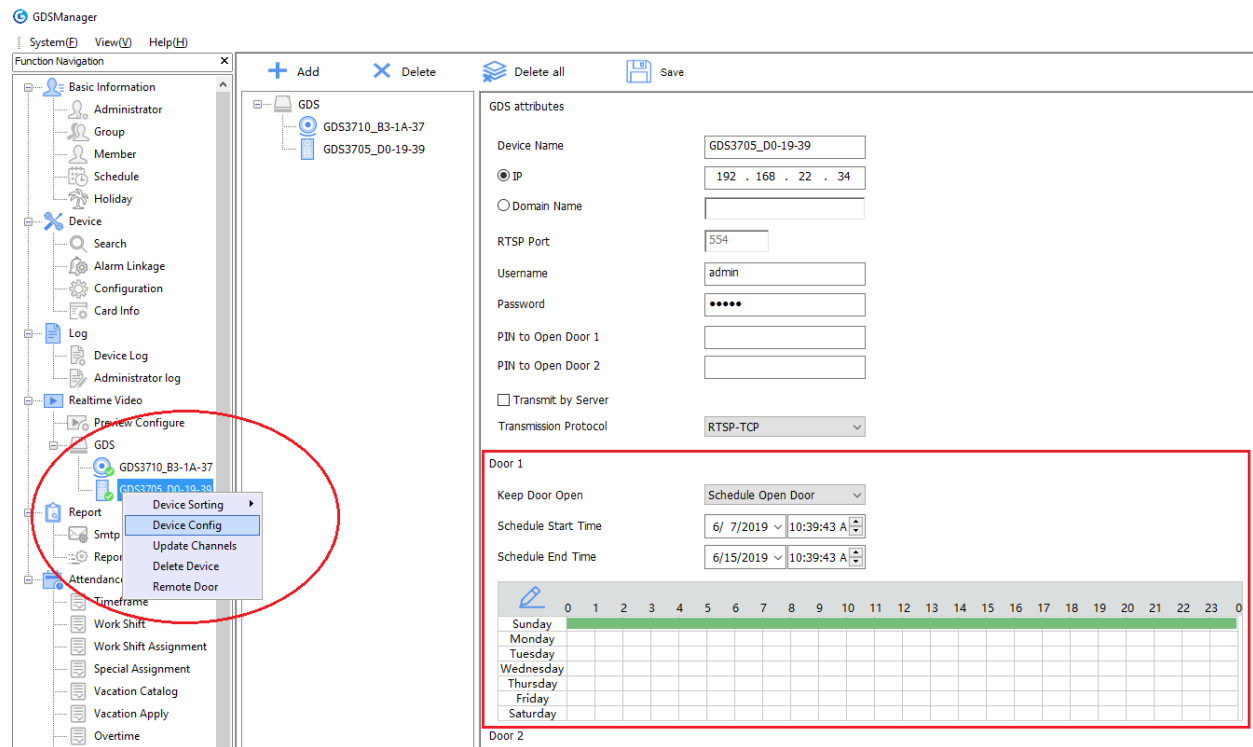
|     | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|-----|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Sun |   |   |   |   |   |   |   |   |   |   |    |    |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

#### Door 2

Keep Door Open: Disabled

Emergency PIN to Disable 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:



## • 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:**

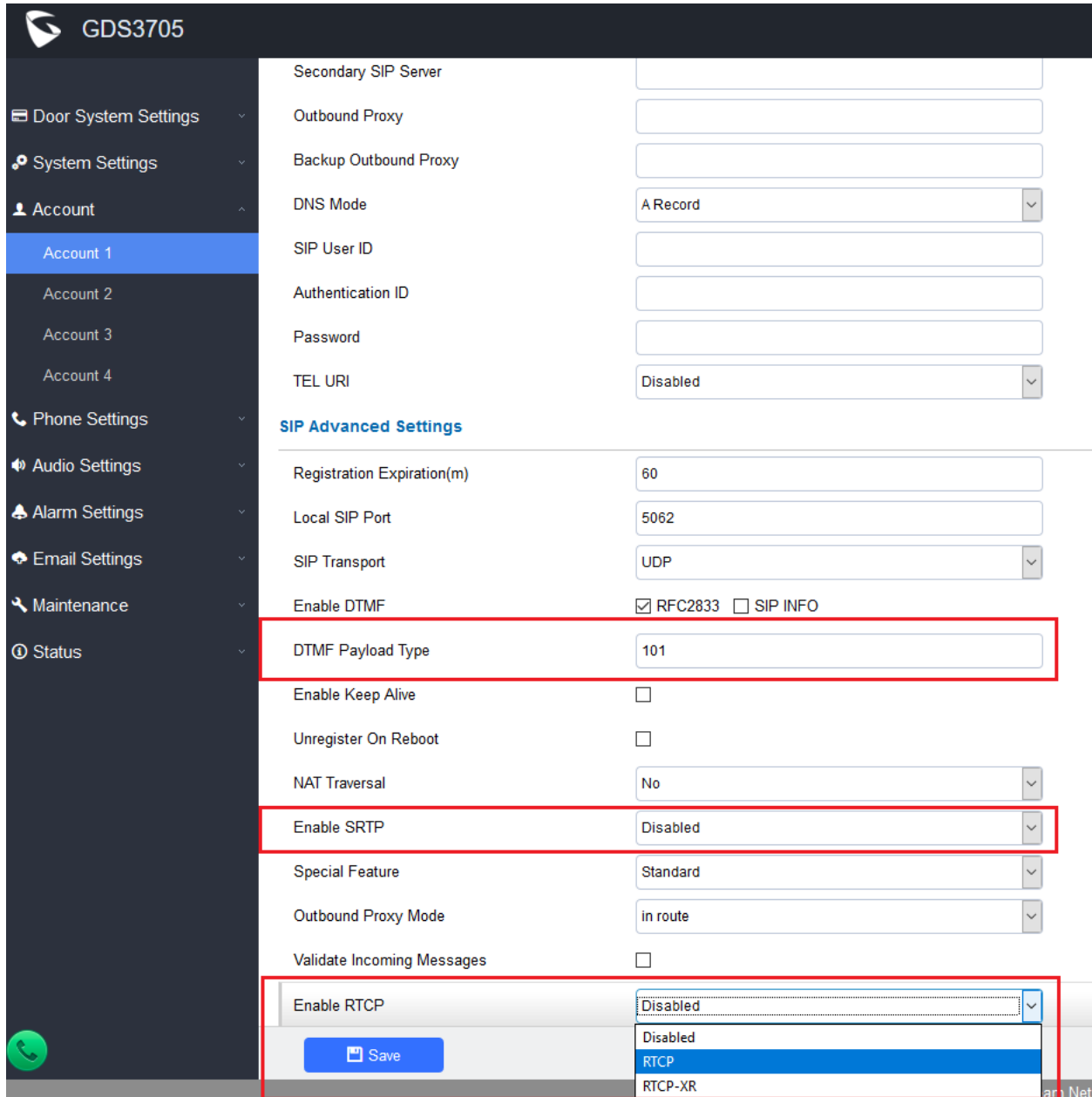
- This feature requires both GDS37xx and GDSManager to make it work.
- GDS37xx has to be configured in “Central Mode”
- GDSManager Version 1.0.1.1 or above is required to support this feature.

## 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:



**GDS3705**

- Door System Settings
- System Settings
- Account
  - Account 1**
  - Account 2
  - Account 3
  - Account 4
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

Secondary SIP Server

Outbound Proxy

Backup Outbound Proxy

DNS Mode: A Record

SIP User ID

Authentication ID

Password

TEL URI: Disabled

**SIP Advanced Settings**

Registration Expiration(m): 60

Local SIP Port: 5062

SIP Transport: UDP

Enable DTMF: ☒ RFC2833 ☐ SIP INFO

**DTMF Payload Type: 101**

Enable Keep Alive: ☐

Unregister On Reboot: ☐

NAT Traversal: No

**Enable SRTP: Disabled**

Special Feature: Standard

Outbound Proxy Mode: in route

Validate Incoming Messages: ☐

**Enable RTCP: Disabled**

Save

Disabled

RTCP

RTCP-XR



- **Functionality**

These parameters are designed for more compatibility with 3<sup>rd</sup> 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.

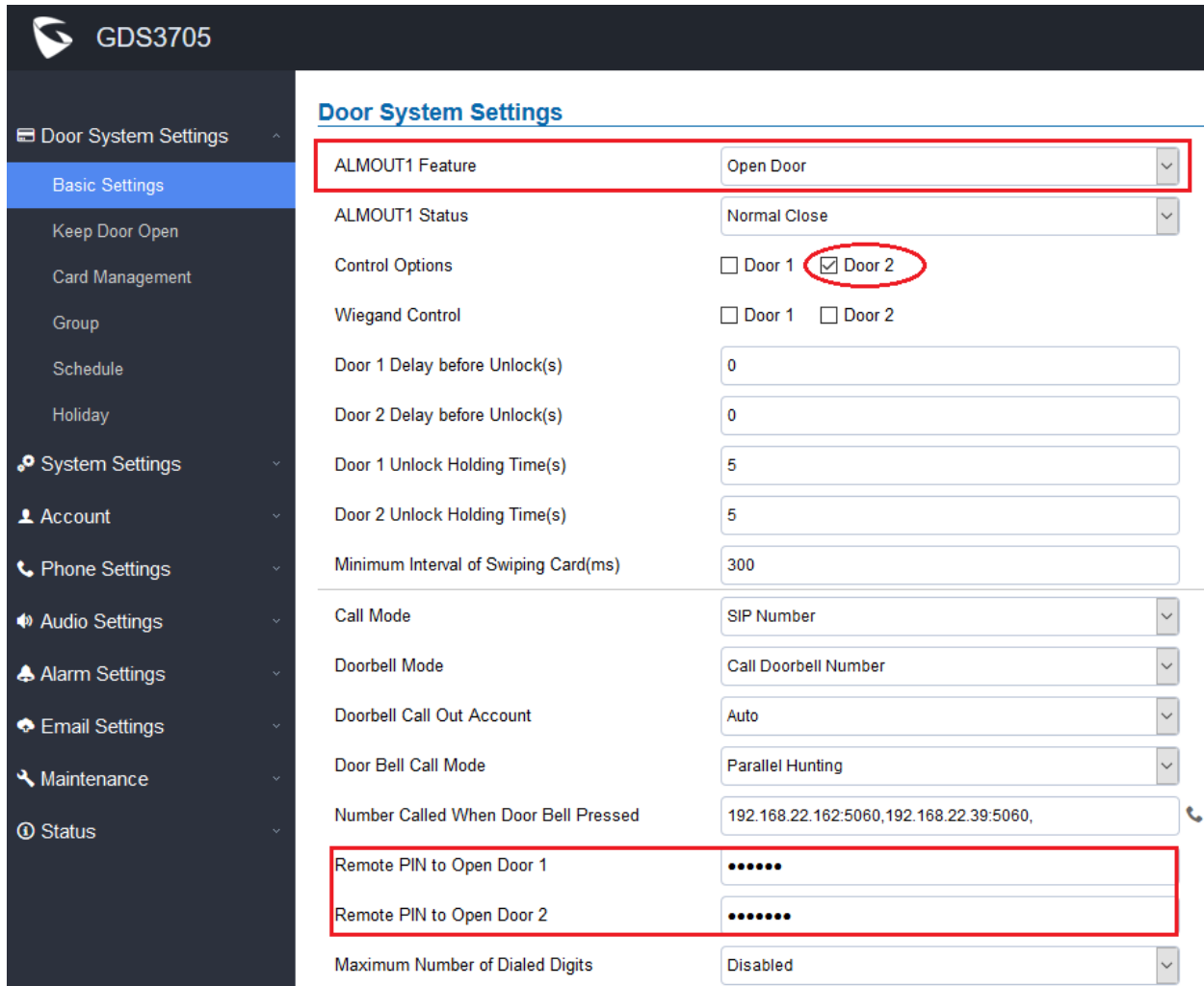
**NOTE:**

- 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 do not 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:



The screenshot shows the GDS3705 web configuration interface. The left sidebar contains a menu with options: Door System Settings (selected), Basic Settings, Keep Door Open, Card Management, Group, Schedule, Holiday, System Settings, Account, Phone Settings, Audio Settings, Alarm Settings, Email Settings, Maintenance, and Status. The main content area is titled 'Door System Settings' and contains various configuration options. A red box highlights the 'ALMOUT1 Feature' dropdown menu, which is set to 'Open Door'. Another red box highlights the 'Control Options' section, where 'Door 2' is selected with a checked checkbox. A third red box highlights the 'Remote PIN to Open Door 1' and 'Remote PIN to Open Door 2' fields, both of which are empty. The 'Maximum Number of Dialed Digits' is set to 'Disabled'.

| Door System Settings                 |  |
|--------------------------------------|--|
| ALMOUT1 Feature                      | Open Door  |
| ALMOUT1 Status                       | Normal Close   |
| Control Options                      | <input type="checkbox"/> Door 1 <input checked="" type="checkbox"/> Door 2 |
| Wiegand Control                      | <input type="checkbox"/> Door 1 <input type="checkbox"/> Door 2            |
| Door 1 Delay before Unlock(s)        | 0  |
| Door 2 Delay before Unlock(s)        | 0  |
| Door 1 Unlock Holding Time(s)        | 5  |
| Door 2 Unlock Holding Time(s)        | 5  |
| Minimum Interval of Swiping Card(ms) | 300  |
| Call Mode                            | SIP Number   |
| Doorbell Mode                        | Call Doorbell Number   |
| Doorbell Call Out Account            | Auto   |
| Door Bell Call Mode                  | Parallel Hunting   |
| Number Called When Door Bell Pressed | 192.168.22.162:5060,192.168.22.39:5060,                                    |
| Remote PIN to Open Door 1            | .....  |
| Remote PIN to Open Door 2            | .....  |
| Maximum Number of Dialed Digits      | Disabled   |

- **Functionality**

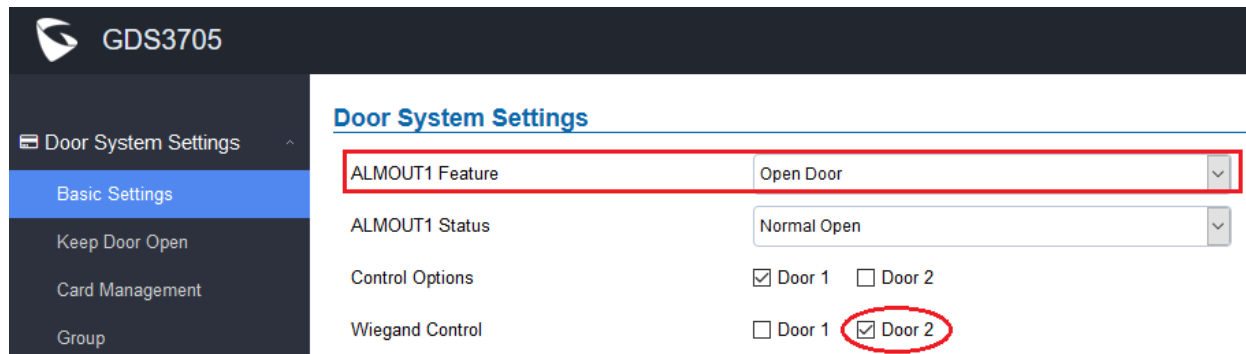
This is a major feature enhancement, by re-use ALMOUT1 (COM1) interface to be either as per original design as normal alarm out with 3<sup>rd</sup> party device, or control DOOR2 operation (the two functions are mutual-exclusive).

Customers can now use this ALMOUT1 (COM1) interface to control DOOR2, in addition 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 3<sup>rd</sup> 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):**



**GDS3705**

**Door System Settings**

ALMOUT1 Feature: Open Door

ALMOUT1 Status: Normal Open

Control Options: ☒ Door 1 ☐ Door 2


Wiegand Control: ☐ Door 1 ☒ Door 2

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 3<sup>rd</sup> party Wiegand Input is set to control DOOR2 (wiring to COM1 interface).

- **Universal PIN for Operation of Doors:**


GDS3705


|  |   |
|--|---|
| <div style="display: flex; justify-content: space-between;"> <span>Door System Settings</span> <span>^</span> </div> <div style="background-color: #007bff; color: white; padding: 2px 5px; margin-top: 5px;">Basic Settings</div> <div style="margin-top: 5px;"> <a href="#">Keep Door Open</a><br/> <a href="#">Card Management</a><br/> <a href="#">Group</a><br/> <a href="#">Schedule</a><br/> <a href="#">Holiday</a> </div> <div style="margin-top: 5px;"> <a href="#">System Settings</a><br/> <a href="#">Account</a><br/> <a href="#">Phone Settings</a><br/> <a href="#">Audio Settings</a><br/> <a href="#">Alarm Settings</a><br/> <a href="#">Email Settings</a><br/> <a href="#">Maintenance</a><br/> <a href="#">Status</a> </div> | <div>Minimum Interval of Swiping Card(ms) <input style="width: 150px;" type="text" value="300"/></div> <hr/> <div>Call Mode <input style="width: 150px;" type="text" value="SIP Number"/></div> <div>Doorbell Mode <input style="width: 150px;" type="text" value="Call Doorbell Number"/></div> <div>Doorbell Call Out Account <input style="width: 150px;" type="text" value="Auto"/></div> <div>Door Bell Call Mode <input style="width: 150px;" type="text" value="Parallel Hunting"/></div> <div>Number Called When Door Bell Pressed <input style="width: 150px;" type="text" value="192.168.22.162:5060,192.168.22.39:5060,"/><a href="#">📞</a></div> <div>Remote PIN to Open Door 1 <input style="width: 150px;" type="text" value="*****"/></div> <div>Remote PIN to Open Door 2 <input style="width: 150px;" type="text" value=""/></div> <div>Maximum Number of Dialed Digits <input style="width: 150px;" type="text" value="Disabled"/></div> <div>No Key Input Timeout(s) <input style="width: 150px;" type="text" value="4"/></div> <div>Press Doorbell Schedule <input style="width: 150px;" type="text" value="All Day"/> <a href="#">Edit Schedule</a></div> <div style="border: 2px solid red; padding: 5px; margin-top: 5px;"> <div>Local PIN Type <input style="width: 150px;" type="text" value="Unified PIN"/></div> <div>Unified PIN Open Door Options <input checked="" type="checkbox"/> Door 1 <input checked="" type="checkbox"/> Door 2</div> <div>Local PIN to Open Door <input style="width: 150px;" type="text" value="*****"/></div> <div>Local PIN to Open Door Schedule <input style="width: 150px;" type="text" value="All Day"/> <a href="#">Edit Schedule</a></div> </div> <div>Enable DTMF Open Door <input checked="" type="checkbox"/></div> |
|--|---|

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 DOO1 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:**


GDS3705

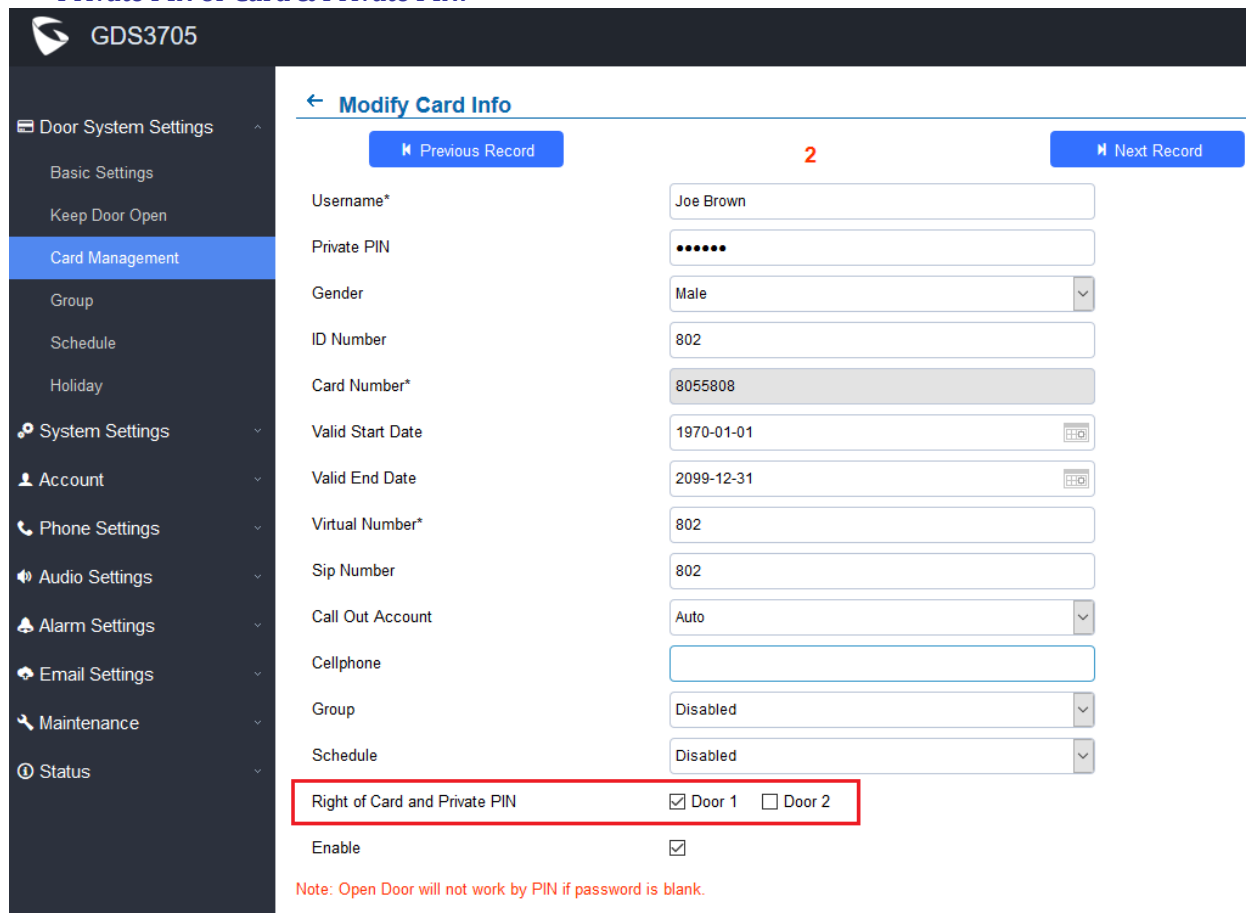
|  |   |
|--|---|
| <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Door System Settings</div> <div style="background-color: #007bff; color: white; padding: 2px 5px; margin-bottom: 5px;">Basic Settings</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Keep Door Open</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Card Management</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Group</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Schedule</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Holiday</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">System Settings</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Account</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Phone Settings</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Audio Settings</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Alarm Settings</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Email Settings</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px; margin-bottom: 5px;">Maintenance</div> <div style="background-color: #2c3e50; color: white; padding: 2px 5px;">Status</div> | <div>Minimum Interval of Swiping Card(ms) <input style="width: 150px;" type="text" value="300"/></div> <hr/> <div>Call Mode <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">SIP Number</div></div> <div>Doorbell Mode <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">Call Doorbell Number</div></div> <div>Doorbell Call Out Account <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">Auto</div></div> <div>Door Bell Call Mode <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">Parallel Hunting</div></div> <div>Number Called When Door Bell Pressed <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">192.168.22.162:5060,192.168.22.39:5060,</div></div> <div style="border: 2px solid red; padding: 2px;">       Remote PIN to Open Door 1 <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">••••••</div> </div> <div style="border: 2px solid red; padding: 2px;">       Remote PIN to Open Door 2 <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">••••••</div> </div> <div>Maximum Number of Dialed Digits <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">Disabled</div></div> <div>No Key Input Timeout(s) <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">4</div></div> <div>Press Doorbell Schedule <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">All Day</div> <a href="#">Edit Schedule</a></div> <div>Local PIN Type <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">Unified PIN</div></div> <div>Unified PIN Open Door Options <div style="display: inline-block; margin-right: 10px;"><input checked="" type="checkbox"/> Door 1</div> <div style="display: inline-block;"><input type="checkbox"/> Door 2</div></div> <div>Local PIN to Open Door <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">••••••</div></div> <div>Local PIN to Open Door Schedule <div style="border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">All Day</div> <a href="#">Edit Schedule</a></div> <div style="border: 2px solid red; padding: 2px;">       Enable DTMF Open Door <div style="display: inline-block; width: 20px; height: 10px; background-color: white; border: 1px solid #ccc; position: relative; top: -2px; left: -2px;"> <div style="position: absolute; top: 2px; left: 2px; width: 8px; height: 8px; background-color: #2c3e50;"></div> </div> </div> <div>Enable Guest PIN <div style="display: inline-block; width: 20px; height: 10px; background-color: white; border: 1px solid #ccc; position: relative; top: -2px; left: -2px;"> <div style="position: absolute; top: 2px; left: 2px; width: 8px; height: 8px; background-color: #2c3e50;"></div> </div></div> <div>Disable Auto Answer <div style="display: inline-block; width: 20px; height: 10px; background-color: white; border: 1px solid #ccc; position: relative; top: -2px; left: -2px;"> <div style="position: absolute; top: 2px; left: 2px; width: 8px; height: 8px; background-color: #2c3e50;"></div> </div></div> |
|--|---|

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:**



**GDS3705**

**Door System Settings**

- Basic Settings
- Keep Door Open
- Card Management**
- Group
- Schedule
- Holiday

**System Settings**

- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

**Modify Card Info**

Previous Record 2 Next Record

Username\* Joe Brown

Private PIN \*\*\*\*\*

Gender Male

ID Number 802

Card Number\* 8055808

Valid Start Date 1970-01-01

Valid End Date 2099-12-31

Virtual Number\* 802

Sip Number 802

Call Out Account Auto

Cellphone

Group Disabled

Schedule Disabled

Right of Card and Private PIN ☒ Door 1 ☐ Door 2

Enable ☒

Note: Open Door will not work by PIN if password is blank.

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.

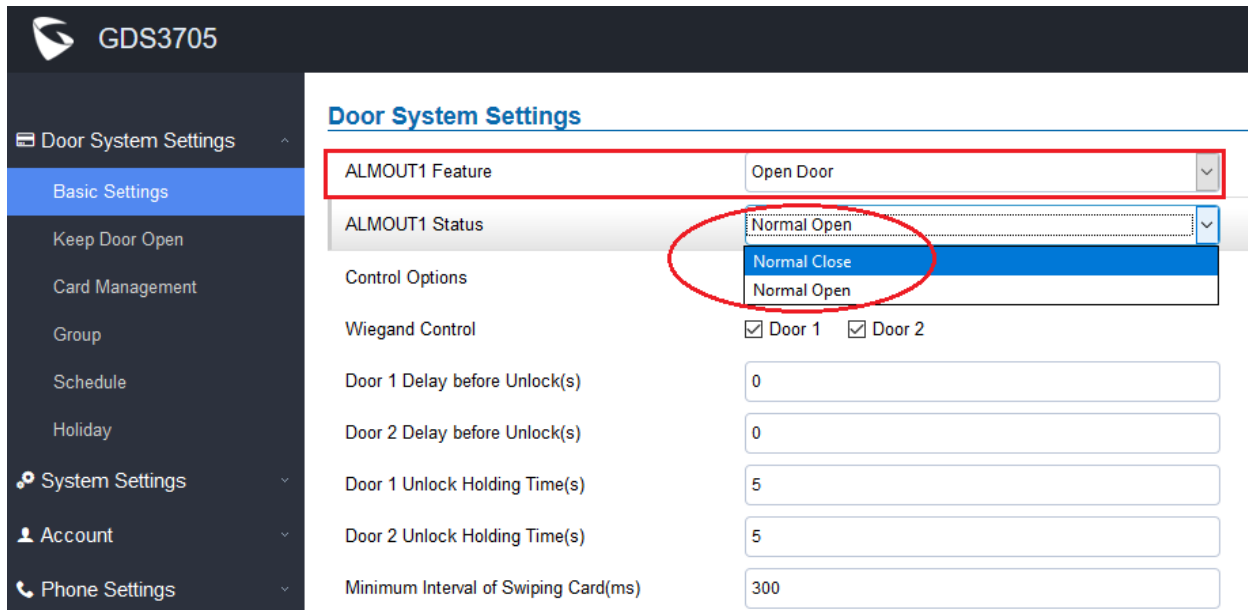
### **NOTE:**

- 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                 |              |
|--------------------------------------|--------------|
| ALMOUT1 Feature                      | Open Door    |
| ALMOUT1 Status                       | Normal Open  |
| Control Options                      | Normal Close |
| Wiegand Control                      | Normal Open  |
| Door 1 Delay before Unlock(s)        | 0            |
| Door 2 Delay before Unlock(s)        | 0            |
| Door 1 Unlock Holding Time(s)        | 5            |
| Door 2 Unlock Holding Time(s)        | 5            |
| Minimum Interval of Swiping Card(ms) | 300          |

- **Functionality**

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

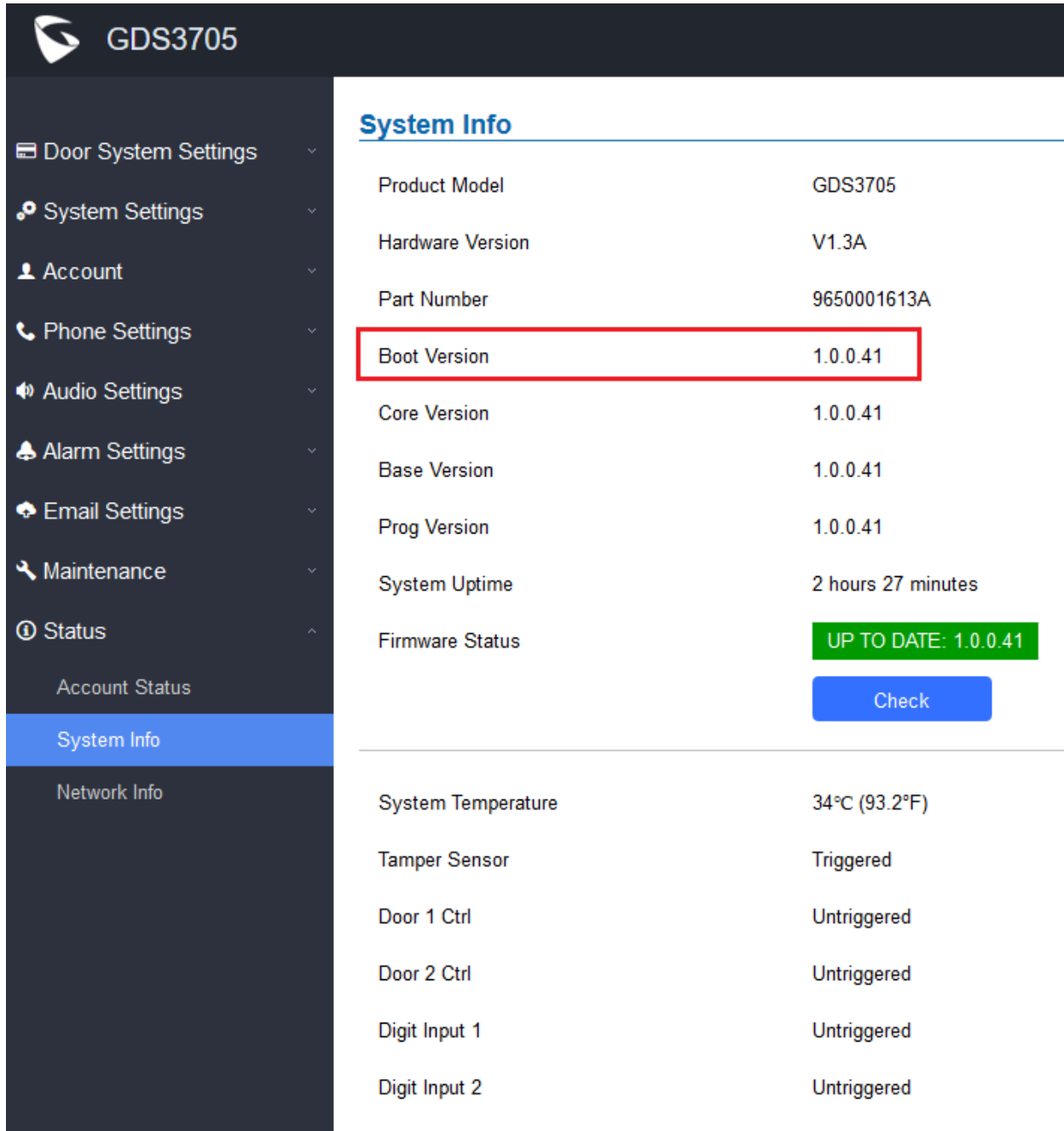
When re-using **ALMOUT1 (COM1)** interface to “Open Door” (controlling **DOOR2**) instead of “Alarm Output” (this feature is mutual exclusive, ONLY one choice will work), customers can choose “Normal Open” or “Normal Close” based on the electrical locker or striker used.

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:



**GDS3705**

- Door System Settings
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status**
  - Account Status
  - System Info**
  - Network Info

### System Info

|                     |                       |
|---------------------|-----------------------|
| Product Model       | GDS3705               |
| Hardware Version    | V1.3A                 |
| Part Number         | 9650001613A           |
| <b>Boot Version</b> | <b>1.0.0.41</b>       |
| Core Version        | 1.0.0.41              |
| Base Version        | 1.0.0.41              |
| Prog Version        | 1.0.0.41              |
| System Uptime       | 2 hours 27 minutes    |
| Firmware Status     | UP TO DATE: 1.0.0.41  |
|                     | <a href="#">Check</a> |

---

|                    |               |
|--------------------|---------------|
| System Temperature | 34°C (93.2°F) |
| Tamper Sensor      | Triggered     |
| Door 1 Ctrl        | Untriggered   |
| Door 2 Ctrl        | Untriggered   |
| Digit Input 1      | Untriggered   |
| Digit Input 2      | Untriggered   |

- **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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

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

## NEW P-VALUE

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

| <parameter>=<value> | Model Supported | Values | Description  |
|---------------------|-----------------|--------|--|
| P15476              | GDS3705         | <0 1>  | Allow Reset Via SIPNOTIFY<br>0: Disable (Default)<br>1: Enable |

## NEW FEATURES OVERVIEW

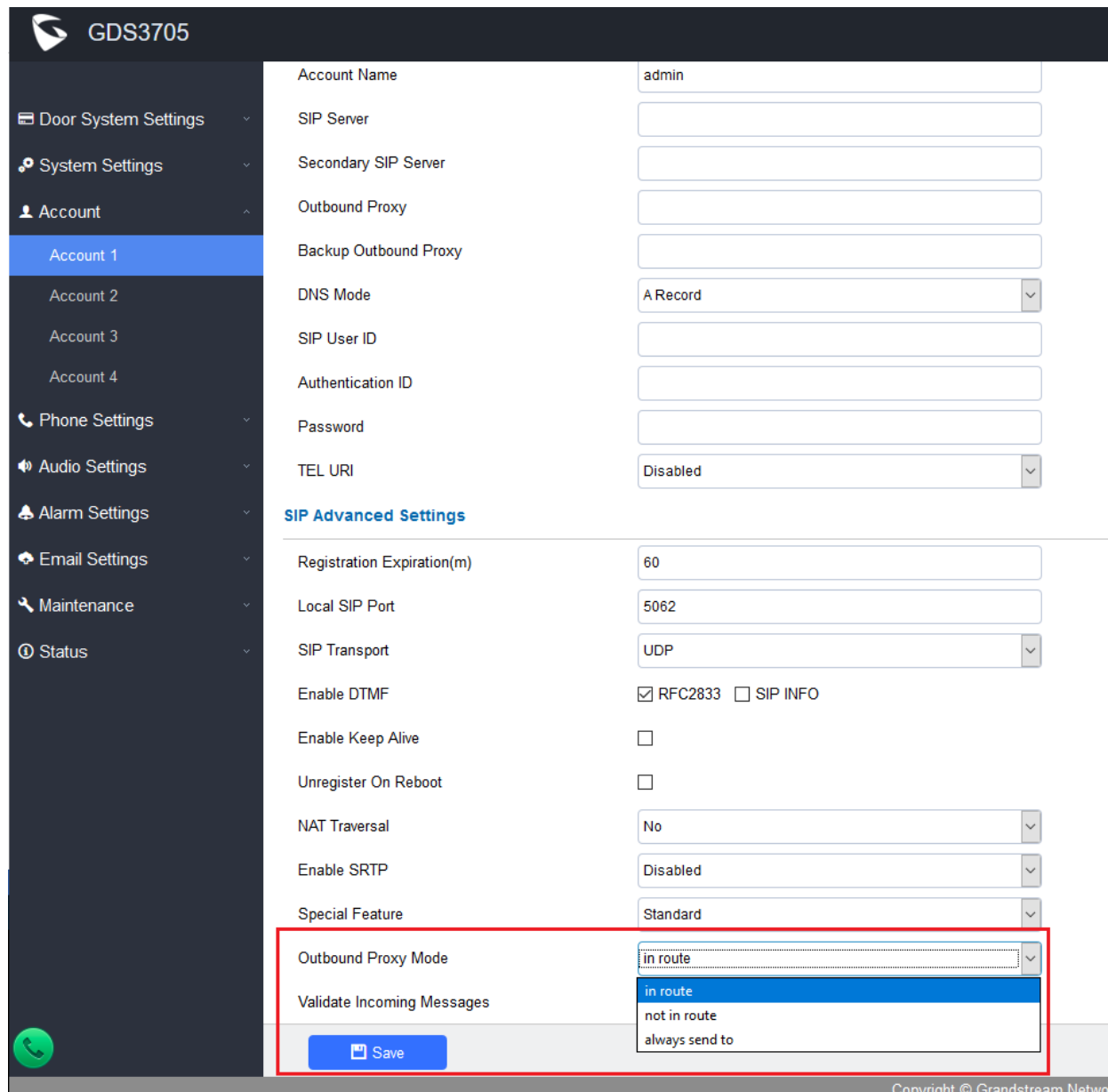
This section lists major new features and describes how to use them from the user's point of view.

### 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:



**GDS3705**

- Door System Settings
- System Settings
- Account
  - Account 1**
  - Account 2
  - Account 3
  - Account 4
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

|                              |   |
|------------------------------|---|
| Account Name                 | admin   |
| SIP Server                   |   |
| Secondary SIP Server         |   |
| Outbound Proxy               |   |
| Backup Outbound Proxy        |   |
| DNS Mode                     | A Record  |
| SIP User ID                  |   |
| Authentication ID            |   |
| Password                     |   |
| TEL URI                      | Disabled  |
| <b>SIP Advanced Settings</b> |   |
| Registration Expiration(m)   | 60  |
| Local SIP Port               | 5062  |
| SIP Transport                | UDP   |
| Enable DTMF                  | <input checked="" type="checkbox"/> RFC2833 <input type="checkbox"/> SIP INFO |
| Enable Keep Alive            | <input type="checkbox"/>  |
| Unregister On Reboot         | <input type="checkbox"/>  |
| NAT Traversal                | No  |
| Enable SRTP                  | Disabled  |
| Special Feature              | Standard  |
| Outbound Proxy Mode          | in route  |
| Validate Incoming Messages   | <input type="checkbox"/>  |

**Outbound Proxy Mode Options:**

- in route
- not in route
- always send to

**Validate Incoming Messages:** ☐

**Save**

Copyright © Grandstream Network

- **Functionality**

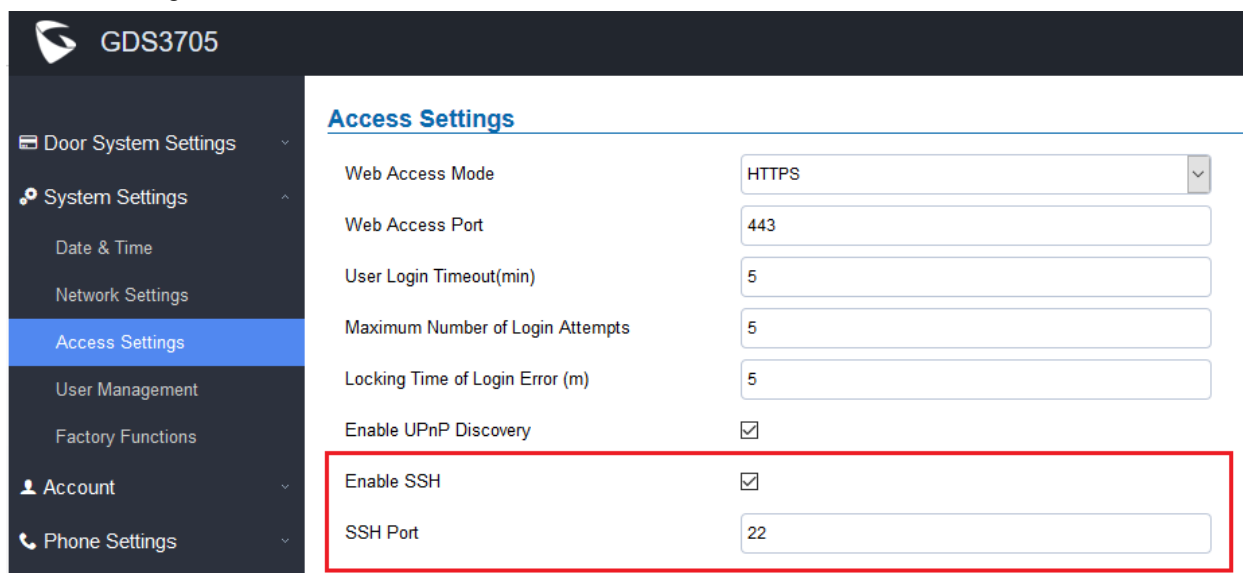
This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can make choosing different Outbound Proxy Mode for their customers to use the service based on different network environment.

## 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:



The screenshot shows the GDS3705 web interface. On the left is a sidebar menu with options: Door System Settings, System Settings (expanded), Date & Time, Network Settings, Access Settings (highlighted), User Management, Factory Functions, Account, and Phone Settings. The main content area is titled 'Access Settings' and contains the following configuration items:

| Setting                          | Value                               |
|----------------------------------|-------------------------------------|
| Web Access Mode                  | HTTPS                               |
| Web Access Port                  | 443                                 |
| User Login Timeout(min)          | 5                                   |
| Maximum Number of Login Attempts | 5                                   |
| Locking Time of Login Error (m)  | 5                                   |
| Enable UPnP Discovery            | <input checked="" type="checkbox"/> |
| Enable SSH                       | <input checked="" type="checkbox"/> |
| SSH Port                         | 22                                  |

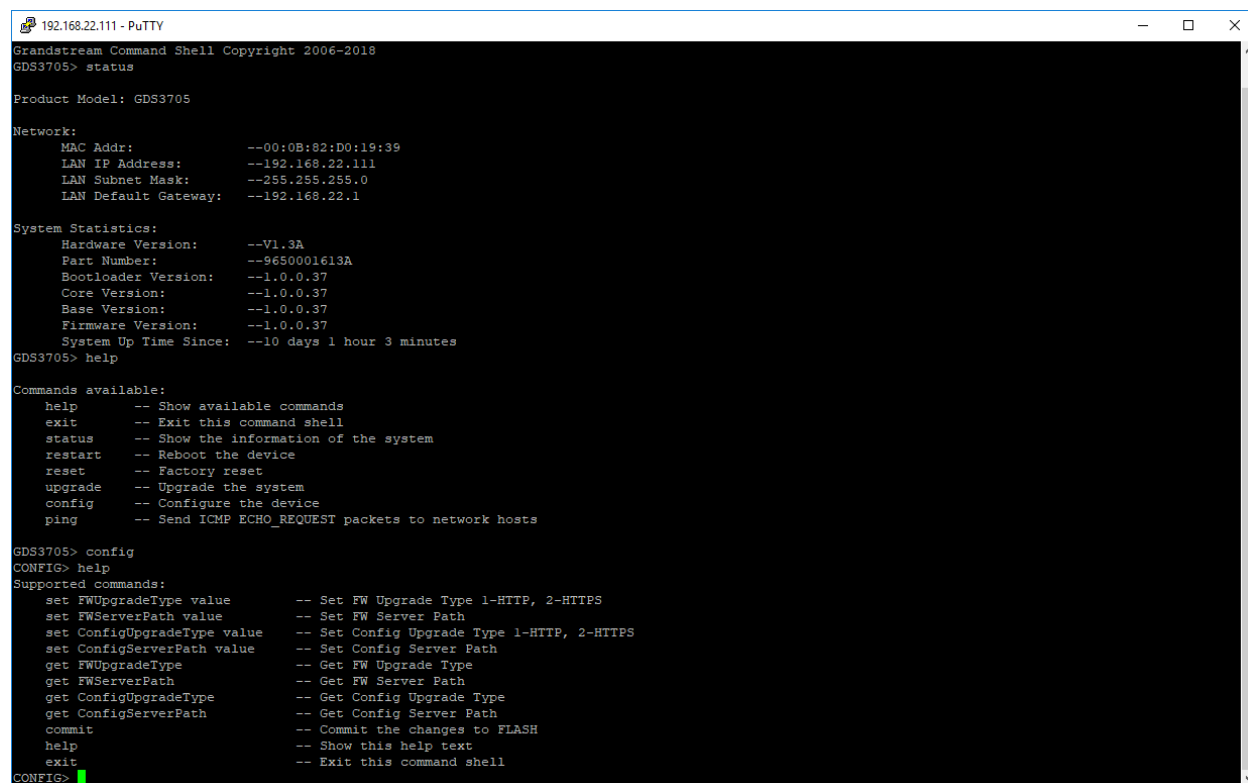
The 'Enable SSH' checkbox and the 'SSH Port' field are highlighted with a red rectangular box.

- **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.

3<sup>rd</sup> party SSH application like PuTTY is required to use this feature.

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



```
192.168.22.111 - PuTTY
Grandstream Command Shell Copyright 2006-2018
GDS3705> status

Product Model: GDS3705

Network:
MAC Addr:      --00:0B:82:D0:19:39
LAN IP Address: --192.168.22.111
LAN Subnet Mask: --255.255.255.0
LAN Default Gateway: --192.168.22.1

System Statistics:
Hardware Version: --V1.3A
Part Number:      --9650001613A
Bootloader Version: --1.0.0.37
Core Version:      --1.0.0.37
Base Version:      --1.0.0.37
Firmware Version:  --1.0.0.37
System Up Time Since: --10 days 1 hour 3 minutes
GDS3705> help

Commands available:
help      -- Show available commands
exit      -- Exit this command shell
status    -- Show the information of the system
restart   -- Reboot the device
reset     -- Factory reset
upgrade   -- Upgrade the system
config    -- Configure the device
ping      -- Send ICMP ECHO_REQUEST packets to network hosts

GDS3705> config
CONFIG> help

Supported commands:
set FWUpgradeType value      -- Set FW Upgrade Type 1-HTTP, 2-HTTPS
set FWServerPath value       -- Set FW Server Path
set ConfigUpgradeType value  -- Set Config Upgrade Type 1-HTTP, 2-HTTPS
set ConfigServerPath value   -- Set Config Server Path
get FWUpgradeType            -- Get FW Upgrade Type
get FWServerPath             -- Get FW Server Path
get ConfigUpgradeType        -- Get Config Upgrade Type
get ConfigServerPath         -- Get Config Server Path
commit                      -- Commit the changes to FLASH
help                        -- Show this help text
exit                        -- Exit this command shell
CONFIG>
```

## **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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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**

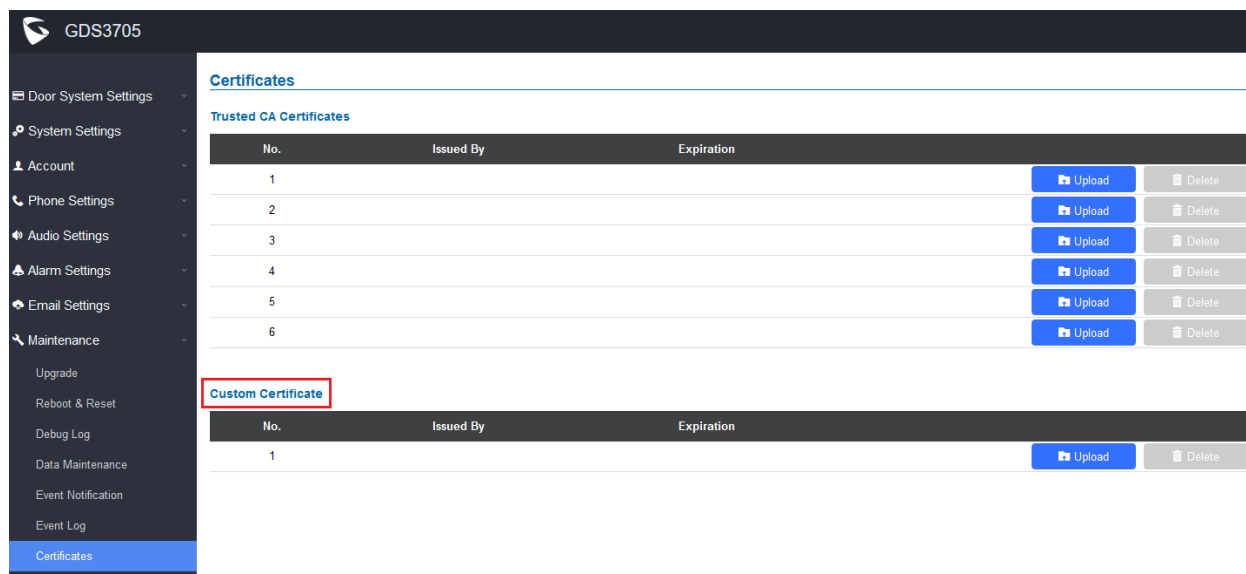
## NEW FEATURES OVERVIEW

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:



**GDS3705**

**Certificates**

**Trusted CA Certificates**

| No. | Issued By | Expiration | Upload | Delete |
|-----|-----------|------------|--------|--------|
| 1   |           |            | Upload | Delete |
| 2   |           |            | Upload | Delete |
| 3   |           |            | Upload | Delete |
| 4   |           |            | Upload | Delete |
| 5   |           |            | Upload | Delete |
| 6   |           |            | Upload | Delete |

**Custom Certificate**

| No. | Issued By | Expiration | Upload | Delete |
|-----|-----------|------------|--------|--------|
| 1   |           |            | Upload | Delete |

- Functionality**

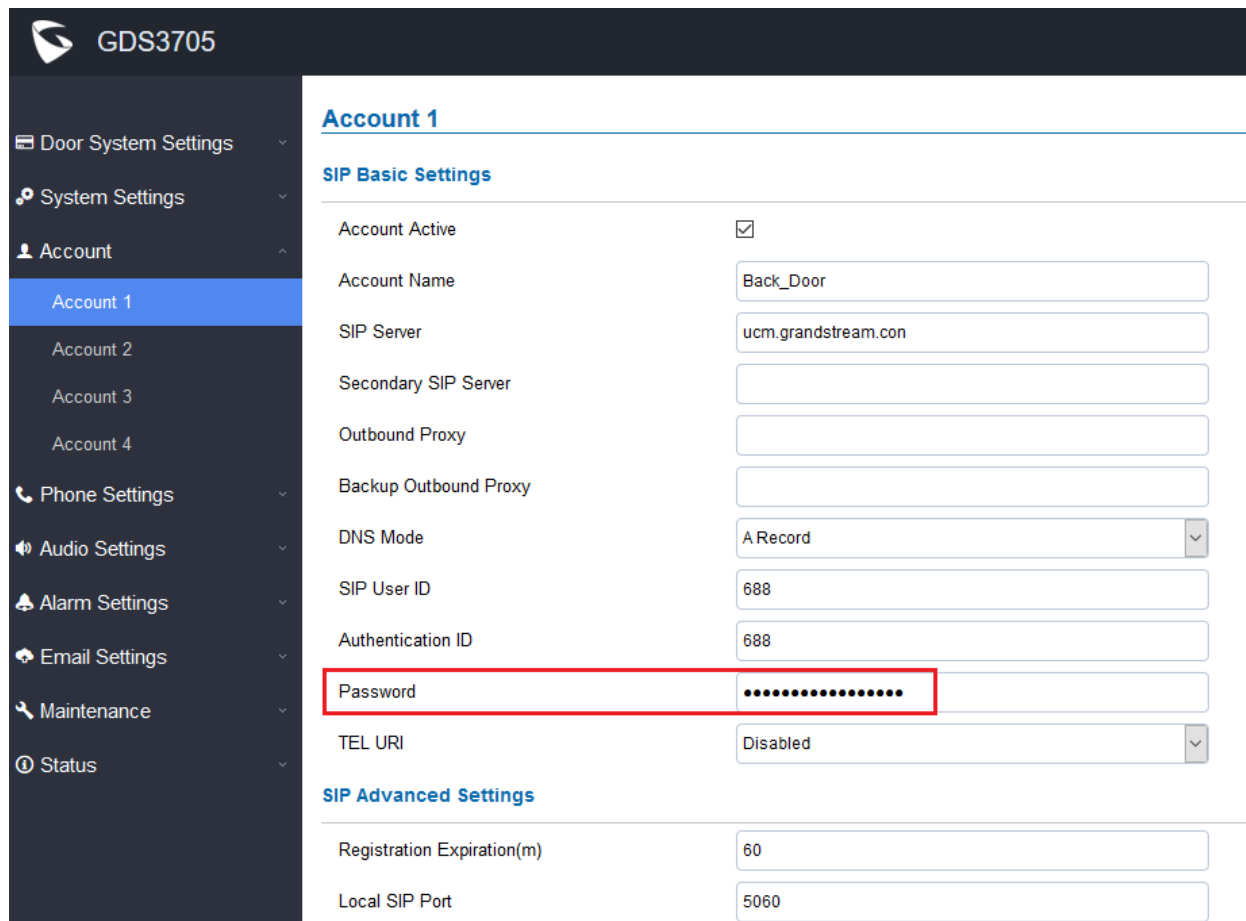
This feature is added to meet the requirement of ITSP customers. Service provider (ITSP) customers can make their own CA certificate and uploaded to the GDS device and provide service to their customers.



## 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)



**GDS3705**

- Door System Settings
- System Settings
- Account
  - Account 1**
  - Account 2
  - Account 3
  - Account 4
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

### Account 1

#### SIP Basic Settings

|                       |                                     |
|-----------------------|-------------------------------------|
| Account Active        | <input checked="" type="checkbox"/> |
| Account Name          | Back_Door                           |
| SIP Server            | ucm.grandstream.com                 |
| Secondary SIP Server  |                                     |
| Outbound Proxy        |                                     |
| Backup Outbound Proxy |                                     |
| DNS Mode              | A Record                            |
| SIP User ID           | 688                                 |
| Authentication ID     | 688                                 |
| <b>Password</b>       | ••••••••••                          |
| TEL URI               | Disabled                            |

#### SIP Advanced Settings

|                            |      |
|----------------------------|------|
| Registration Expiration(m) | 60   |
| Local SIP Port             | 5060 |

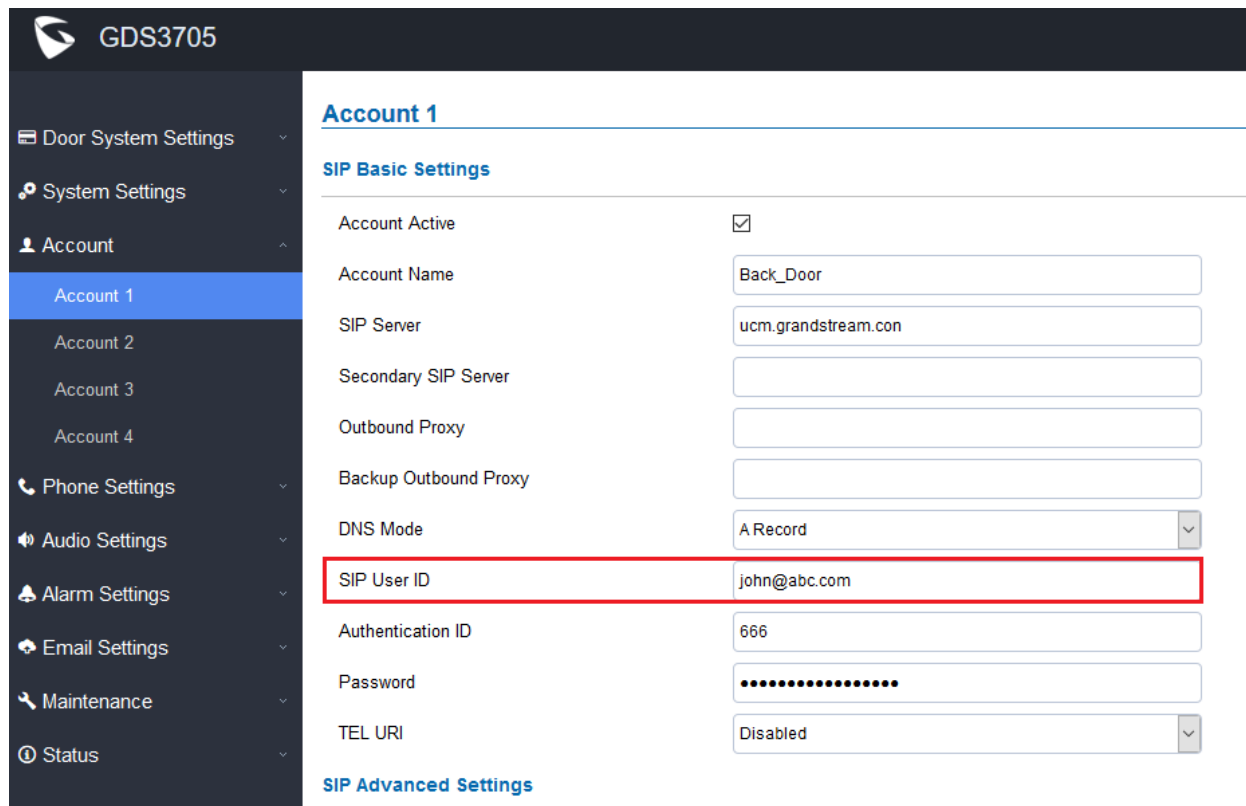
- **Functionality**

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**

- Door System Settings
- System Settings
- Account
  - Account 1**
  - Account 2
  - Account 3
  - Account 4
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

### Account 1

#### SIP Basic Settings

|                       |                                     |
|-----------------------|-------------------------------------|
| Account Active        | <input checked="" type="checkbox"/> |
| Account Name          | Back_Door                           |
| SIP Server            | ucm.grandstream.com                 |
| Secondary SIP Server  |                                     |
| Outbound Proxy        |                                     |
| Backup Outbound Proxy |                                     |
| DNS Mode              | A Record                            |
| <b>SIP User ID</b>    | <b>john@abc.com</b>                 |
| Authentication ID     | 666                                 |
| Password              | .....                               |
| TEL URI               | Disabled                            |

#### SIP Advanced Settings

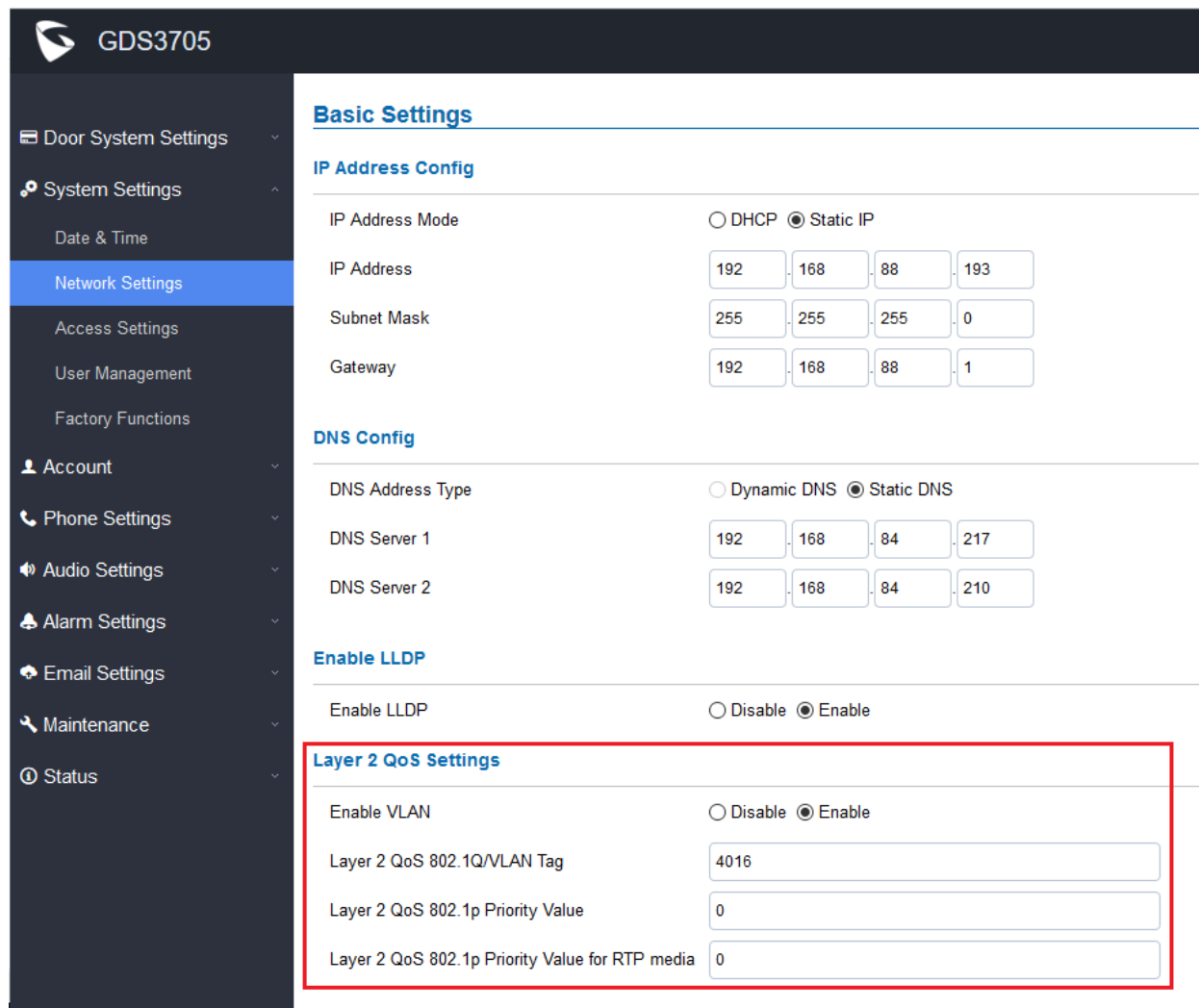
- **Functionality**

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:



The screenshot shows the web configuration interface for a Grandstream GDS3705 device. The left sidebar contains a menu with the following items: Door System Settings, System Settings (expanded), Date & Time, Network Settings (highlighted), Access Settings, User Management, Factory Functions, Account, Phone Settings, Audio Settings, Alarm Settings, Email Settings, Maintenance, and Status. The main content area is titled 'Basic Settings' and contains several configuration sections:

- IP Address Config:**
  - IP Address Mode: ☐ DHCP ☒ Static IP
  - IP Address: 192.168.88.193
  - Subnet Mask: 255.255.255.0
  - Gateway: 192.168.88.1
- DNS Config:**
  - DNS Address Type: ☐ Dynamic DNS ☒ Static DNS
  - DNS Server 1: 192.168.84.217
  - DNS Server 2: 192.168.84.210
- Enable LLDP:**
  - Enable LLDP: ☐ Disable ☒ Enable
- Layer 2 QoS Settings (highlighted with a red box):**
  - Enable VLAN: ☐ Disable ☒ Enable
  - Layer 2 QoS 802.1Q/VLAN Tag: 4016
  - Layer 2 QoS 802.1p Priority Value: 0
  - Layer 2 QoS 802.1p Priority Value for RTP media: 0

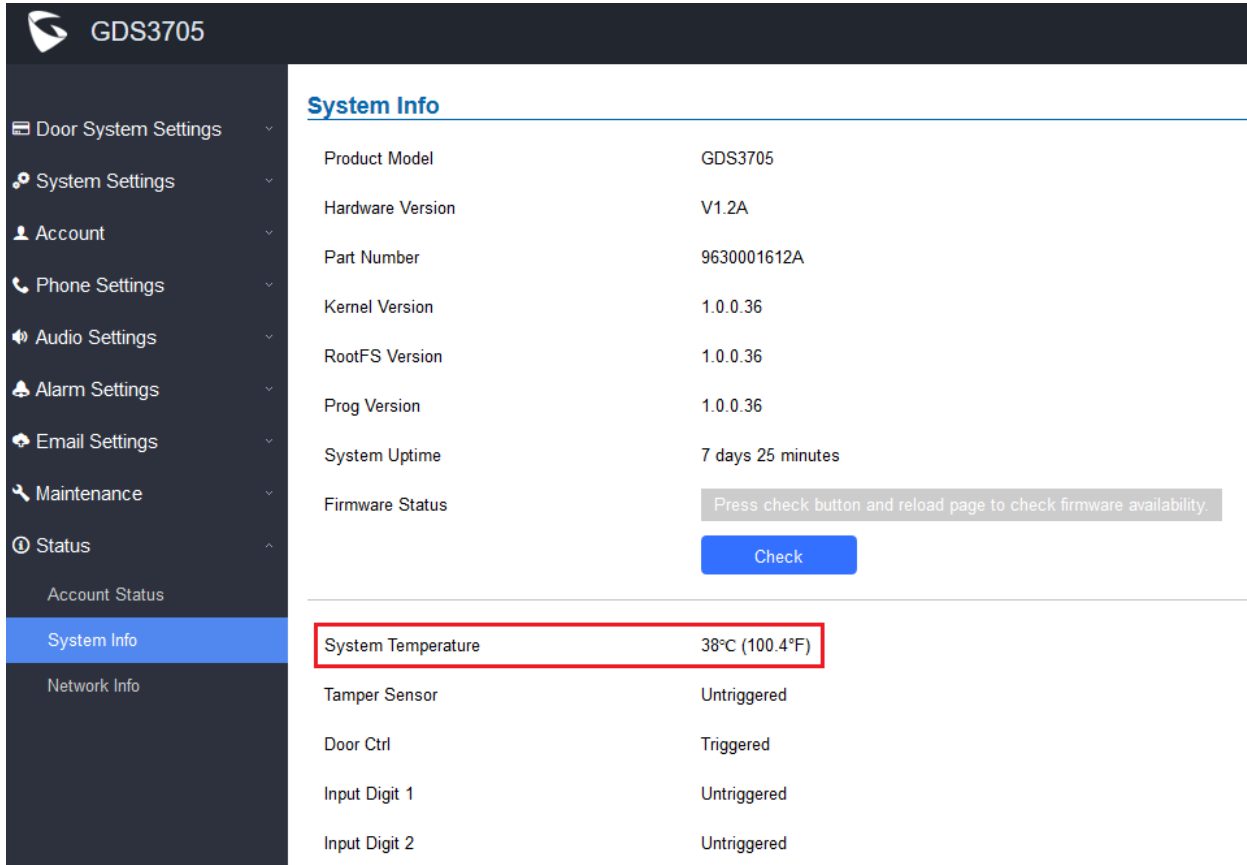
- Functionality**

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:



The screenshot shows the web configuration interface for a GDS3705 device. The left sidebar contains a menu with options: Door System Settings, System Settings, Account, Phone Settings, Audio Settings, Alarm Settings, Email Settings, Maintenance, Status, Account Status, System Info (highlighted), and Network Info. The main content area is titled 'System Info' and displays various system parameters:

| Parameter                 | Value   |
|---------------------------|---|
| Product Model             | GDS3705   |
| Hardware Version          | V1.2A   |
| Part Number               | 9630001612A   |
| Kernel Version            | 1.0.0.36  |
| RootFS Version            | 1.0.0.36  |
| Prog Version              | 1.0.0.36  |
| System Uptime             | 7 days 25 minutes   |
| Firmware Status           | Press check button and reload page to check firmware availability.<br><a href="#">Check</a> |
| <b>System Temperature</b> | <b>38°C (100.4°F)</b>   |
| Tamper Sensor             | Untriggered   |
| Door Ctrl                 | Triggered   |
| Input Digit 1             | Untriggered   |
| Input Digit 2             | Untriggered   |

- **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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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

| P-Value      | Model Supported | Default Value | Comments                        |
|--------------|-----------------|---------------|---------------------------------|
| P15418=<int> | GDS3710/GDS3705 | 0 - 10        | Press Doorbell Schedule         |
| P15419=<int> | GDS3710/GDS3705 | 0 - 20        | Maximum Number of Dialed Digits |

| Account 1               | Account 2               | Account 3               | Account 4               |                    |         |  |
|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|---------|--|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model<br>Supported | Values  | Description                                      |
| P271=<int>              | P401=<int>              | P501=<int>              | P601=<int>              | GDS3705            | <0 1>   | Account Active<br>(In Use).<br>0:No<br>1:Yes     |
| P210=<int>              | P499=<int>              | P599=<int>              | P699=<int>              | GDS3705            | <0 1>   | SIP Registration<br>Status(Read<br>Only)         |
| P3=<string>             | P407=<string>           | P507=<string>           | P607=<string>           | GDS3705            |         | Account Name<br>Max. Length =<br>64              |
| P47=<string>            | P402=<string>           | P502=<string>           | P602=<string>           | GDS3705            |         | SIP Server<br>Max. Length =<br>255               |
| P2312=<string>          | P2412=<string>          | P2512=<string>          | P2612=<string>          | GDS3705            |         | Secondary SIP<br>Server<br>Max. Length =<br>255  |
| P48=<string>            | P403=<string>           | P503=<string>           | P603=<string>           | GDS3705            |         | Outbound Proxy<br>Max. Length =<br>255           |
| P2333=<string>          | P2433=<string>          | P2533=<string>          | P2633=<string>          | GDS3705            |         | Backup<br>Outbound Proxy<br>Max. Length =<br>255 |
| P103=<int>              | P408=<int>              | P508=<int>              | P608=<int>              | GDS3705            | <0 1 2> | DNS Mode<br>0:A Record<br>1:SRV<br>2:NAPTR/SRV   |



| Account 1               | Account 2               | Account 3               | Account 4               |                    |            |  |
|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|------------|--|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model<br>Supported | Values     | Description  |
| P35=<string>            | P404=<string>           | P504=<string>           | P604=<string>           | GDS3705            |            | SIP User ID<br>Max. Length =<br>255                    |
| P36=<string>            | P405=<string>           | P505=<string>           | P605=<string>           | GDS3705            |            | Authenticate ID<br>Max. Length =<br>255                |
| P34=<string>            | P406=<string>           | P506=<string>           | P606=<string>           | GDS3705            |            | Authenticate<br>password<br>Max. Length =<br>255       |
| P63=<int>               | P409=<int>              | P509=<int>              | P609=<int>              | GDS3705            | <0 1 2>    | TEL URI<br>0: Disabled<br>1: User = Phone<br>2: Enable |
| P32=<int>               | P412=<int>              | P512=<int>              | P612=<int>              | GDS3705            | 60 - 64800 | Registration<br>Expiration(m)                          |
| P40=<int>               | P413=<int>              | P513=<int>              | P613=<int>              | GDS3705            | 1 - 65535  | Local SIP Port   |
| P130=<int>              | P448=<int>              | P548=<int>              | P648=<int>              | GDS3705            | <0 1 2>    | SIP Transport<br>0: UDP<br>1: TCP<br>2: TLS/TCP        |
| P2302=<int>             | P2402=<int>             | P2502=<int>             | P2602=<int>             | GDS3705            | <0 1>      | Enable DTMF<br>RFC2833<br>0: Disable<br>1: Enable      |
| P2303=<int>             | P2403=<int>             | P2503=<int>             | P2603=<int>             | GDS3705            | <0 1>      | Enable DTMF<br>SIP INFO<br>0: Disable<br>1: Enable     |
| P490=<int>              | P1309=<int>             | P590=<int>              | P690=<int>              | GDS3705            | <0 1>      | Enable Keep<br>Alive<br>0: Disable<br>1: Enable        |

| Account 1               | Account 2               | Account 3               | Account 4               |                    |             |   |
|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|-------------|---|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model<br>Supported | Values      | Description   |
| P52=<int>               | P414=<int>              | P514=<int>              | P614=<int>              | GDS3705            | <0 1 2 3 4> | NAT Traversal<br>0:No<br>1:Stun<br>2:Keep Alive<br>3:UPnP<br>4:Auto<br>5:VPN        |
| P81=<int>               | P411=<int>              | P511=<int>              | P611=<int>              | GDS3705            | <0 1>       | Unregister On<br>Reboot<br>0: Disable<br>1: Enable                                  |
| P183=<int>              | P443=<int>              | P543=<int>              | P643=<int>              | GDS3705            | <0 1 2>     | Enable SRTP<br>0: Disable<br>1: Enable but<br>not Forced<br>2: Enable and<br>Forced |
| P100=<int>              | P424=<int>              | P524=<int>              | P624=<int>              | GDS3705            | <100 102>   | Special Feature<br>100: Standard<br>102: Broadsoft                                  |

| <parameter>=<value> | Model Supported | Values    | Description   |
|---------------------|-----------------|-----------|---|
| P76=<string>        | GDS3705         |           | STUN Server   |
| P39=<int>           | GDS3705         | 1 - 65535 | Local SIP Port  |
| P10451=<int>        | GDS3705         | 0 - 65535 | Auto On-Hook Timer<br>(Seconds)                         |
| P29610=<int>        | GDS3705         | 48-10000  | Use Random Port   |
| P14847=<int>        | GDS3705         | 0 - 90    | Ring Timeout  |
| P280=<string>       | GDS3705         |           | SIP TLS Certificate                                     |
| P279=<string>       | GDS3705         |           | SIP TLS Private Key                                     |
| P281=<string>       | GDS3705         |           | SIP TLS Private Key<br>Password                         |
| P10453=<int>        | GDS3705         | <0 1>     | Enable Direct IP Call<br>0: Disable 1: Enable           |
| P8001=<int>         | GDS3705         | <0 1>     | Enable two-way SIP Calling<br>0: Disable 1: Enable      |
| P8003=<int>         | GDS3705         | <0 1>     | SIP Proxy Compatibility Mode<br>0: Disable 1: Enable    |
| P10410=<int>        | GDS3705         | <0 1>     | Enable White List<br>0: Disable 1: Enable               |
| P10411=<string>     | GDS3705         |           | Use (,) as separator when<br>deleting multiple numbers. |
| P10420=<int>        | GDS3705         | <0 1>     | Enable White List<br>0: Disable 1: Enable               |
| P10421=<string>     | GDS3705         |           | Use (,) as separator when<br>deleting multiple numbers. |
| P10430=<int>        | GDS3705         | <0 1>     | Enable White List<br>0: Disable 1: Enable               |
| P10431=<string>     | GDS3705         |           | Use (,) as separator when<br>deleting multiple numbers. |

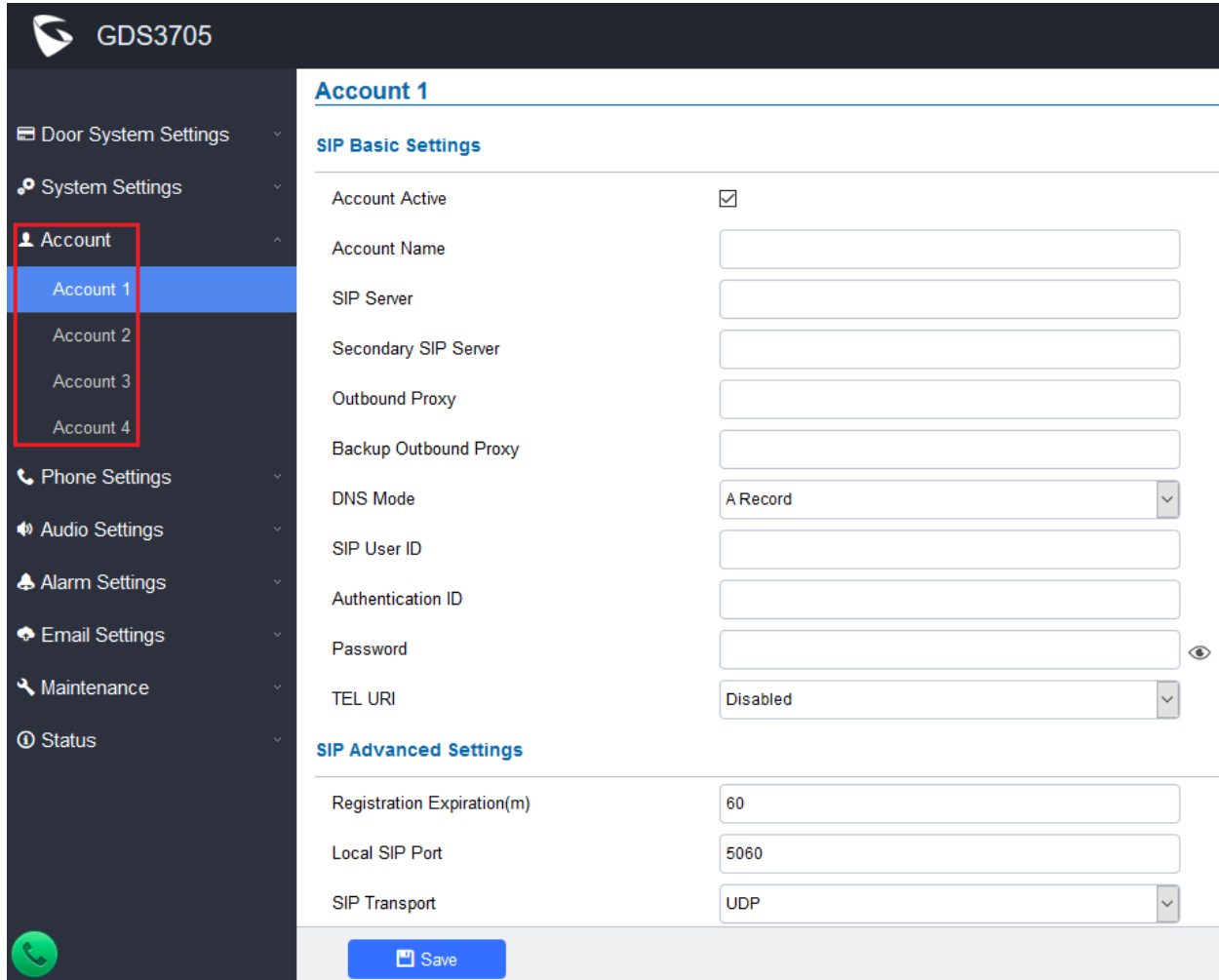
## NEW FEATURES OVERVIEW

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:



**GDS3705**

**Account 1**

**SIP Basic Settings**

|                       |                                     |
|-----------------------|-------------------------------------|
| Account Active        | <input checked="" type="checkbox"/> |
| Account Name          | <input type="text"/>                |
| SIP Server            | <input type="text"/>                |
| Secondary SIP Server  | <input type="text"/>                |
| Outbound Proxy        | <input type="text"/>                |
| Backup Outbound Proxy | <input type="text"/>                |
| DNS Mode              | A Record                            |
| SIP User ID           | <input type="text"/>                |
| Authentication ID     | <input type="text"/>                |
| Password              | <input type="password"/>            |
| TEL URI               | Disabled                            |

**SIP Advanced Settings**

|                            |      |
|----------------------------|------|
| Registration Expiration(m) | 60   |
| Local SIP Port             | 5060 |
| SIP Transport              | UDP  |

**Save**

- **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**

| Account 1               | Account 2               | Account 3               | Account 4               |                    |         |  |
|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|---------|--|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model<br>Supported | Values  | Description                                      |
| P271=<int>              | P401=<int>              | P501=<int>              | P601=<int>              | GDS3705            | <0 1>   | Account Active<br>(In Use).<br>0:No<br>1:Yes     |
| P210=<int>              | P499=<int>              | P599=<int>              | P699=<int>              | GDS3705            | <0 1>   | SIP Registration<br>Status(Read<br>Only)         |
| P3=<string>             | P407=<string>           | P507=<string>           | P607=<string>           | GDS3705            |         | Account Name<br>Max. Length =<br>64              |
| P47=<string>            | P402=<string>           | P502=<string>           | P602=<string>           | GDS3705            |         | SIP Server<br>Max. Length =<br>255               |
| P2312=<string>          | P2412=<string>          | P2512=<string>          | P2612=<string>          | GDS3705            |         | Secondary SIP<br>Server<br>Max. Length =<br>255  |
| P48=<string>            | P403=<string>           | P503=<string>           | P603=<string>           | GDS3705            |         | Outbound Proxy<br>Max. Length =<br>255           |
| P2333=<string>          | P2433=<string>          | P2533=<string>          | P2633=<string>          | GDS3705            |         | Backup<br>Outbound Proxy<br>Max. Length =<br>255 |
| P103=<int>              | P408=<int>              | P508=<int>              | P608=<int>              | GDS3705            | <0 1 2> | DNS Mode<br>0:A Record<br>1:SRV<br>2:NAPTR/SRV   |

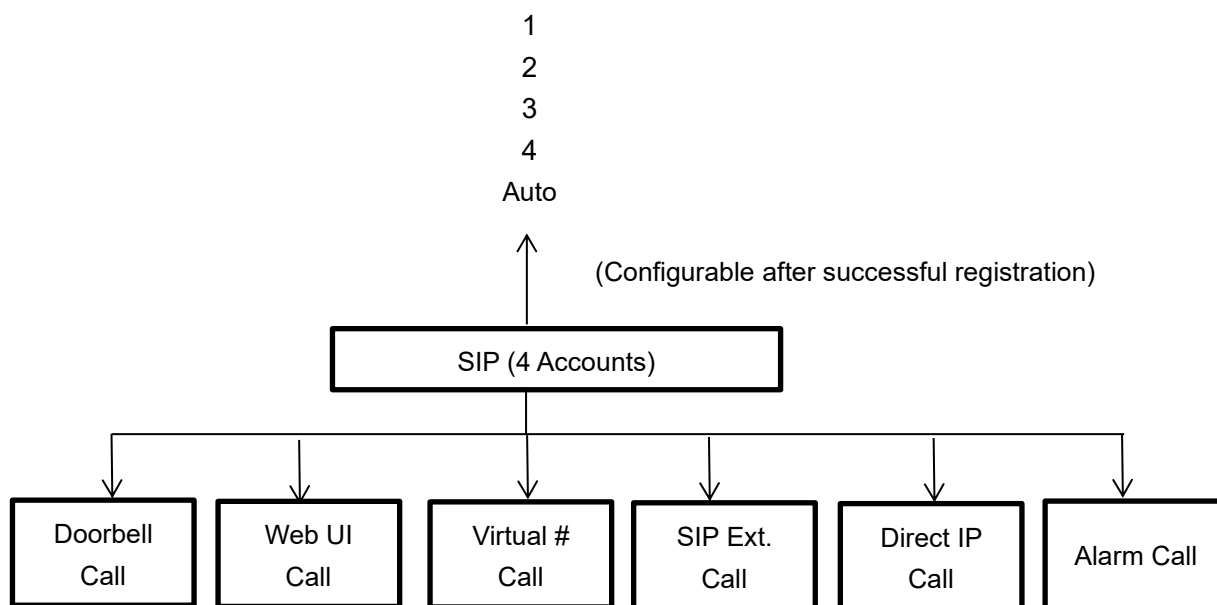
| Account 1               | Account 2               | Account 3               | Account 4               |                    |            |  |
|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|------------|--|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model<br>Supported | Values     | Description  |
| P35=<string>            | P404=<string>           | P504=<string>           | P604=<string>           | GDS3705            |            | SIP User ID<br>Max. Length =<br>255                    |
| P36=<string>            | P405=<string>           | P505=<string>           | P605=<string>           | GDS3705            |            | Authenticate ID<br>Max. Length =<br>255                |
| P34=<string>            | P406=<string>           | P506=<string>           | P606=<string>           | GDS3705            |            | Authenticate<br>password<br>Max. Length =<br>255       |
| P63=<int>               | P409=<int>              | P509=<int>              | P609=<int>              | GDS3705            | <0 1 2>    | TEL URI<br>0: Disabled<br>1: User = Phone<br>2: Enable |
| P32=<int>               | P412=<int>              | P512=<int>              | P612=<int>              | GDS3705            | 60 - 64800 | Registration<br>Expiration(m)                          |
| P40=<int>               | P413=<int>              | P513=<int>              | P613=<int>              | GDS3705            | 1 - 65535  | Local SIP Port   |
| P130=<int>              | P448=<int>              | P548=<int>              | P648=<int>              | GDS3705            | <0 1 2>    | SIP Transport<br>0: UDP<br>1: TCP<br>2: TLS/TCP        |
| P2302=<int>             | P2402=<int>             | P2502=<int>             | P2602=<int>             | GDS3705            | <0 1>      | Enable DTMF<br>RFC2833<br>0: Disable<br>1: Enable      |
| P2303=<int>             | P2403=<int>             | P2503=<int>             | P2603=<int>             | GDS3705            | <0 1>      | Enable DTMF<br>SIP INFO<br>0: Disable<br>1: Enable     |
| P490=<int>              | P1309=<int>             | P590=<int>              | P690=<int>              | GDS3705            | <0 1>      | Enable Keep<br>Alive<br>0: Disable<br>1: Enable        |

| Account 1               | Account 2               | Account 3               | Account 4               |                    |             |   |
|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|-------------|---|
| <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | <parameter><br>=<value> | Model<br>Supported | Values      | Description   |
| P52=<int>               | P414=<int>              | P514=<int>              | P614=<int>              | GDS3705            | <0 1 2 3 4> | NAT Traversal<br>0:No<br>1:Stun<br>2:Keep Alive<br>3:UPnP<br>4:Auto<br>5:VPN        |
| P81=<int>               | P411=<int>              | P511=<int>              | P611=<int>              | GDS3705            | <0 1>       | Unregister On<br>Reboot<br>0: Disable<br>1: Enable                                  |
| P183=<int>              | P443=<int>              | P543=<int>              | P643=<int>              | GDS3705            | <0 1 2>     | Enable SRTP<br>0: Disable<br>1: Enable but<br>not Forced<br>2: Enable and<br>Forced |
| P100=<int>              | P424=<int>              | P524=<int>              | P624=<int>              | GDS3705            | <100 102>   | Special Feature<br>100: Standard<br>102: Broadsoft                                  |

| <parameter>=<value> | Model Supported | Values    | Description   |
|---------------------|-----------------|-----------|---|
| P76=<string>        | GDS3705         |           | STUN Server   |
| P39=<int>           | GDS3705         | 1 - 65535 | Local SIP Port  |
| P10451=<int>        | GDS3705         | 0 - 65535 | Auto On-Hook Timer<br>(Seconds)                         |
| P29610=<int>        | GDS3705         | 48-10000  | Use Random Port   |
| P14847=<int>        | GDS3705         | 0 - 90    | Ring Timeout  |
| P280=<string>       | GDS3705         |           | SIP TLS Certificate                                     |
| P279=<string>       | GDS3705         |           | SIP TLS Private Key                                     |
| P281=<string>       | GDS3705         |           | SIP TLS Private Key<br>Password                         |
| P10453=<int>        | GDS3705         | <0 1>     | Enable Direct IP Call<br>0: Disable 1: Enable           |
| P8001=<int>         | GDS3705         | <0 1>     | Enable two-way SIP Calling<br>0: Disable 1: Enable      |
| P8003=<int>         | GDS3705         | <0 1>     | SIP Proxy Compatibility Mode<br>0: Disable 1: Enable    |
| P10410=<int>        | GDS3705         | <0 1>     | Enable White List<br>0: Disable 1: Enable               |
| P10411=<string>     | GDS3705         |           | Use (,) as separator when<br>deleting multiple numbers. |
| P10420=<int>        | GDS3705         | <0 1>     | Enable White List<br>0: Disable 1: Enable               |
| P10421=<string>     | GDS3705         |           | Use (,) as separator when<br>deleting multiple numbers. |
| P10430=<int>        | GDS3705         | <0 1>     | Enable White List<br>0: Disable 1: Enable               |
| P10431=<string>     | GDS3705         |           | Use (,) as separator when<br>deleting multiple numbers. |

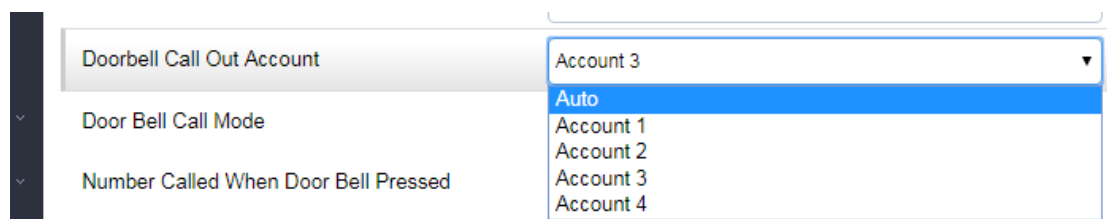


- **Flow Chart of Multiple SIP Account**



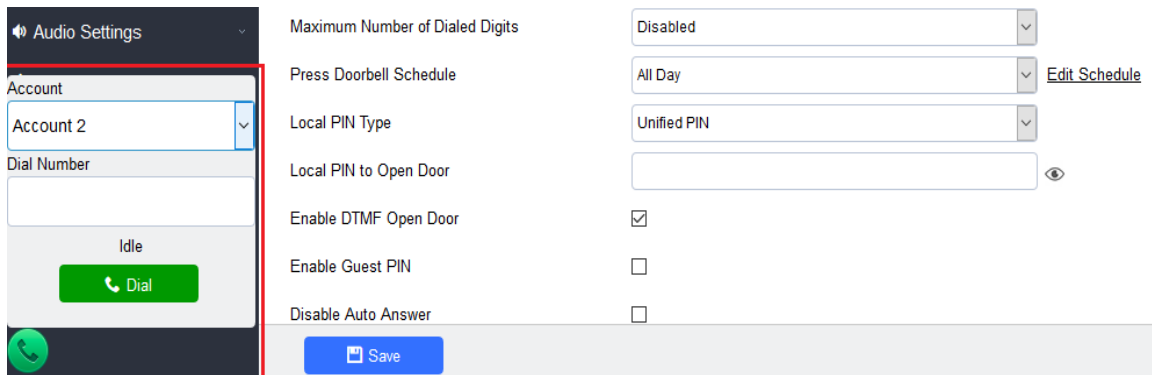
### 1) **Doorbell Call:**

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:

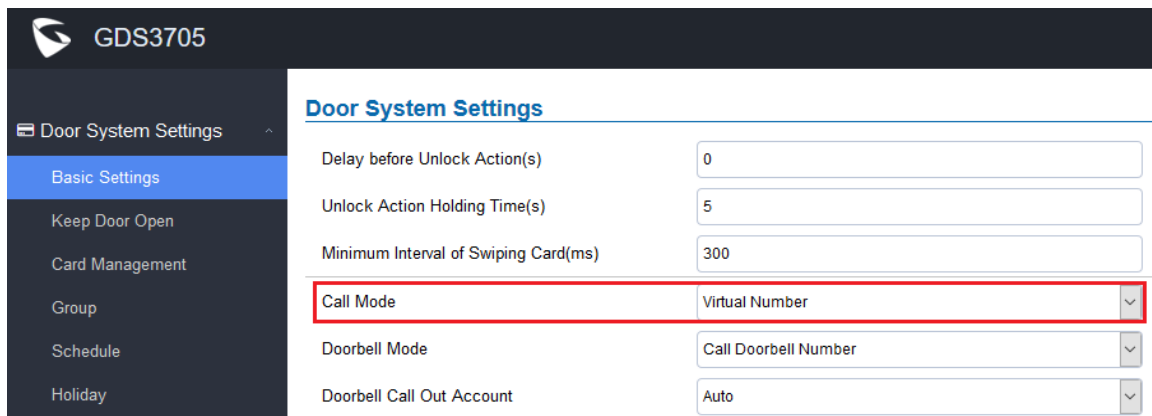
WebUI call is following the same calling protocol like 1). See below screenshot:



|                                 |                                       |
|---------------------------------|---------------------------------------|
| Maximum Number of Dialed Digits | Disabled                              |
| Press Doorbell Schedule         | All Day <a href="#">Edit Schedule</a> |
| Local PIN Type                  | Unified PIN                           |
| Local PIN to Open Door          | <input type="text"/>                  |
| Enable DTMF Open Door           | <input checked="" type="checkbox"/>   |
| Enable Guest PIN                | <input type="checkbox"/>              |
| Disable Auto Answer             | <input type="checkbox"/>              |

## 3) Virtual # Call:

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



|                                      |                      |
|--------------------------------------|----------------------|
| Delay before Unlock Action(s)        | 0                    |
| Unlock Action Holding Time(s)        | 5                    |
| Minimum Interval of Swiping Card(ms) | 300                  |
| Call Mode                            | Virtual Number       |
| Doorbell Mode                        | Call Doorbell Number |
| Doorbell Call Out Account            | Auto                 |

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

Door System Settings

- Basic Settings
- Keep Door Open
- Card Management**
- Group
- Schedule
- Holiday
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

### ← Modify Card Info

Previous Record
1
Next Record

|                  |   |
|------------------|---|
| Username*        | <input type="text" value="John Doe"/>   |
| Private PIN      | <input type="text" value="...."/>   |
| Gender           | <input type="text" value="Male"/>   |
| ID Number        | <input type="text" value="803"/>  |
| Card Number*     | <input type="text" value="2900346"/>  |
| Valid Start Date | <input type="text" value="1970-01-01"/>   |
| Valid End Date   | <input type="text" value="2099-12-31"/>   |
| Virtual Number*  | <input type="text" value="308"/>  |
| Sip Number       | <input type="text"/>  |
| Call Out Account | <div style="border: 1px solid #ccc; padding: 2px;"> <input type="text" value="Auto"/> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 2px;"> <div style="background-color: #007bff; color: white; padding: 2px;">Auto</div> <div>Account 1</div> <div>Account 2</div> <div>Account 3</div> <div>Account 4</div> </div> |
| Cellphone        | <input type="text"/>  |
| Group            | <input type="text"/>  |
| Schedule         | <input type="text"/>  |
| Enable           | <input checked="" type="checkbox"/>   |

Note: Open Door will not work by PIN if password is blank.

Save
Back

#### 4) SIP Call:

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

Door System Settings

- Basic Settings**
- Keep Door Open
- Card Management
- Group
- Schedule

### Door System Settings

|                                      |   |
|--------------------------------------|---|
| Delay before Unlock Action(s)        | <input type="text" value="0"/>                    |
| Unlock Action Holding Time(s)        | <input type="text" value="5"/>                    |
| Minimum Interval of Swiping Card(ms) | <input type="text" value="300"/>                  |
| Call Mode                            | <input type="text" value="SIP Number"/>           |
| Doorbell Mode                        | <input type="text" value="Call Doorbell Number"/> |

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.

- Keep Door Open
- Card Management
- Group
- Schedule
- Holiday
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

|                  |   |
|------------------|---|
| Username*        | <input type="text" value="Steve"/>  |
| Private PIN      | <input type="password" value="....."/>  |
| Gender           | <input type="text" value="Male"/>   |
| ID Number        | <input type="text" value="603"/>  |
| Card Number*     | <input type="text" value="2900346"/>  |
| Valid Start Date | <input type="text" value="1970-01-01"/>   |
| Valid End Date   | <input type="text" value="2099-12-31"/>   |
| Virtual Number*  | <input type="text" value="603"/>  |
| Sip Number       | <input type="text" value="8001"/>   |
| Call Out Account | <input type="text" value="Auto"/> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;">             Auto<br/>             Account 1<br/> <b>Account 2</b><br/>             Account 3<br/>             Account 4           </div> |
| Cellphone        |   |
| Group            |   |
| Schedule         |   |
| Enable           | <input type="checkbox"/>  |

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 |   |
|----------------------|---|
| Basic Settings       | Delay before Unlock Action(s) <input type="text" value="0"/><br>Unlock Action Holding Time(s) <input type="text" value="5"/><br>Minimum Interval of Swiping Card(ms) <input type="text" value="300"/> |
| Keep Door Open       |   |
| Card Management      |   |
| Group                | Call Mode <input type="text" value="SIP Number"/>   |
| Schedule             | Doorbell Mode <input type="text" value="Call Doorbell Number"/>   |
| Holiday              | Doorbell Call Out Account <input type="text" value="Auto"/>   |
| System Settings      | Door Bell Call Mode <input type="text" value="Parallel Hunting"/>   |
| Account              | Number Called When Door Bell Pressed <input type="text" value="192.168.22.89:5060,192.168.22.177:5062"/>  |
| Phone Settings       | Remote PIN to Open Door <input type="text" value="..."/>  |
| Audio Settings       | Maximum Number of Dialed Digits <input type="text" value="Disabled"/>   |
| Alarm Settings       | Press Doorbell Schedule <input type="text" value="All Day"/> <a href="#">Edit Schedule</a>  |

## 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 1<sup>st</sup> available registered account. Normally it will be configured to use particular account to call.

- Door System Settings
- System Settings
- Account
- Phone Settings
- Audio Settings
- Alarm Settings
  - Alarm Events Config
  - Alarm Schedule Settings
  - Alarm Action Settings
  - Alarm Phone
- Email Settings
- Maintenance

### Alarm Phone

|                        |  |
|------------------------|--|
| Alarm Call Out Account | <div style="border: 1px solid #ccc; padding: 2px;">Auto</div> <div style="background-color: #007bff; color: white; padding: 2px;">Auto</div> <div style="padding: 2px;">Account 1</div> <div style="padding: 2px;">Account 2</div> <div style="padding: 2px;">Account 3</div> <div style="padding: 2px;">Account 4</div> |
| Alarm Phone 1          |  |
| Alarm Phone 2          |  |
| Alarm Phone 3          |  |
| Alarm Phone 4          |  |
| Alarm Phone 5          |  |
| Alarm Phone 6          |  |
| Alarm Phone 7          |  |
| Alarm Phone 8          |  |
| Alarm Phone 9          |  |
| Alarm Phone 10         |  |

The “White List” configuration is under “Phone Settings” by choosing different SIP account configured.

- Door System Settings
- System Settings
- Account
- Phone Settings
  - Phone Settings
  - Account 1 White List
  - Account 2 White List
  - Account 3 White List
  - Account 4 White List

### Account 1 White List

Enable White Number List ☐

|                |                      |
|----------------|----------------------|
| Phone Number 1 | <input type="text"/> |
| Phone Number 2 | <input type="text"/> |
| Phone Number 3 | <input type="text"/> |
| Phone Number 4 | <input type="text"/> |
| Phone Number 5 | <input type="text"/> |
| Phone Number 6 | <input type="text"/> |
| Phone Number 7 | <input type="text"/> |

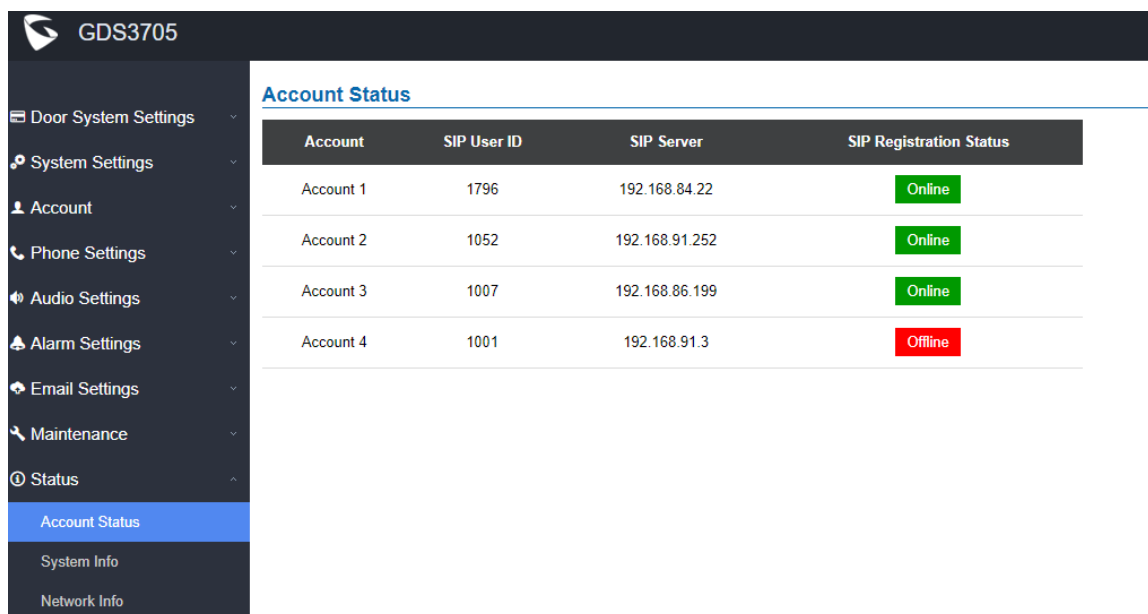
More detailed information, please refer to the User Manual of GDS37xx series, which can be found from Grandstream website:

<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.



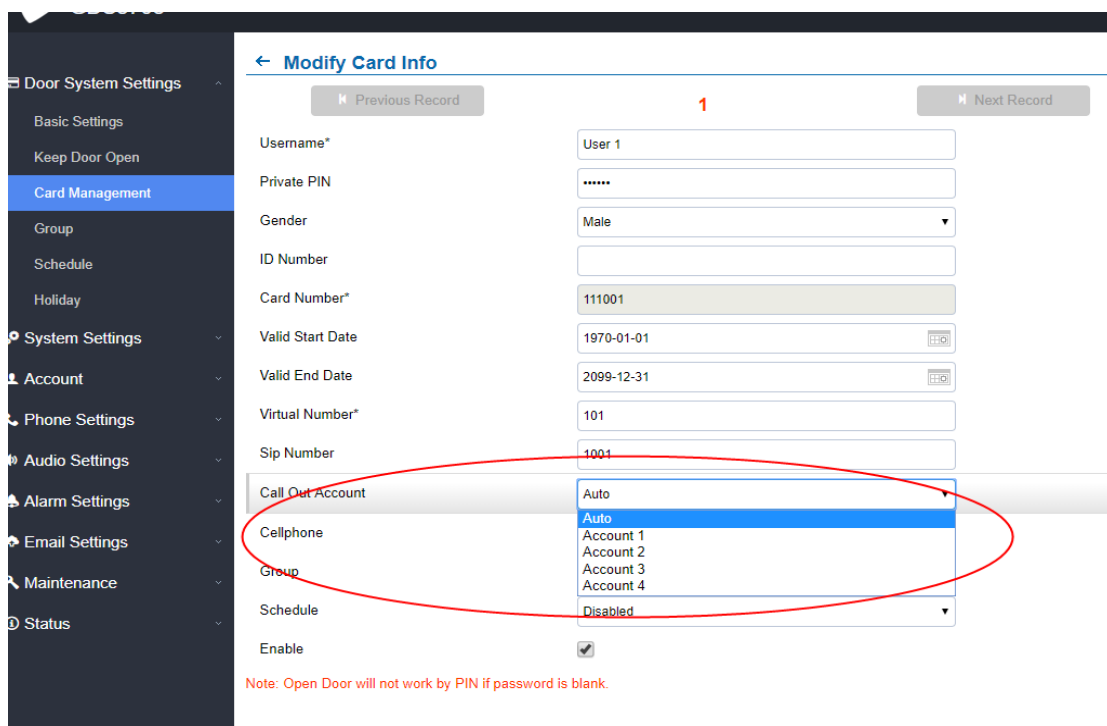
**GDS3705**

**Account Status**

| Account   | SIP User ID | SIP Server     | SIP Registration Status |
|-----------|-------------|----------------|-------------------------|
| Account 1 | 1796        | 192.168.84.22  | Online                  |
| Account 2 | 1052        | 192.168.91.252 | Online                  |
| Account 3 | 1007        | 192.168.86.199 | Online                  |
| Account 4 | 1001        | 192.168.91.3   | Offline                 |

### 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 fist available registered SIP account will be used.



**← Modify Card Info**

Previous Record 1 Next Record

Username\* User 1

Private PIN \*\*\*\*\*

Gender Male

ID Number

Card Number\* 111001

Valid Start Date 1970-01-01

Valid End Date 2099-12-31

Virtual Number\* 101

Sip Number 1001

Call Out Account **Auto**

Cellphone

Group

Schedule Disabled

Enable ☒

Note: Open Door will not work by PIN if password is blank.

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 1<sup>st</sup> 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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |
| GDS3705 HW1.4B | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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

| <parameter>=<value>                    | Page                         | Values               | Comments                           |
|--|------------------------------|----------------------|------------------------------------|
| <b>type=&lt;string&gt;</b>             | <b>Keep Door Open</b>        | <b>sch_open_door</b> | <b>Get Keep Door Open Configs</b>  |
| P15429=<int>                           | Keep Door Open               | 0,1,2                | Keep Door Open Type                |
| P15211 =<string>                       | Keep Door Open               |                      | Valid Schedule Start Time          |
| P15212 =<string>                       | Keep Door Open               |                      | Valid Schedule End Time            |
| P15213=<string>                        | Keep Door Open               |                      | Schedule                           |
| P15430=<int>                           | Keep Door Open               | 5-480                | Interval of Keep Door Open(min)    |
| P15424=<int>                           | Door System Basic Setting    | 0,1                  | Enable HTTP API Remote Open Door   |
| <b>test_alarm_action=&lt; int &gt;</b> | <b>Alarm Action Settings</b> | <b>1-10</b>          | <b>Test for Alarm action</b>       |
| P15407=<int>                           |                              | 0,1                  | Enable Non-scheduled Access Alarm  |
| P15408=<int>                           |                              | 1-10                 | Non-scheduled Access Alarm Profile |

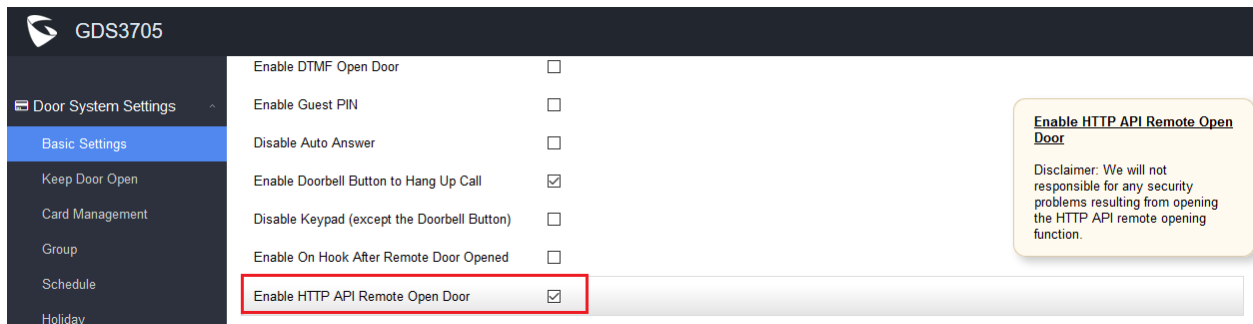
## NEW FEATURES OVERVIEW

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:



- Functionality**

This feature allow 3<sup>rd</sup> party system integrators to do 2<sup>nd</sup> 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**

| P-Value      | Values                    | Default Value | Comments                         |
|--------------|---------------------------|---------------|----------------------------------|
| P15424=<int> | Door System Basic Setting | 0,1           | Enable HTTP API Remote Open Door |

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

[http://www.grandstream.com/sites/default/files/Resources/gds37xx\\_http\\_api.pdf](http://www.grandstream.com/sites/default/files/Resources/gds37xx_http_api.pdf)

## NON-SCHEDULED ACCESS ALARM

- Web Configuration**

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

Alarm Settings
 

- Alarm Events Config
- Alarm Schedule Settings
- Alarm Action Settings
- Alarm Phone List

Email Settings
 

- Maintenance
- Status

### Alarm Config

Enable Silent Alarm Mode
 ☐

Enable Hostage Code
 ☐

Enable Tamper Alarm
 ☐

Enable Alarm for PIN Input Error
 ☒

Select Alarm Action Profile
 

profile1

[Edit Profile](#)

Enable Non-scheduled Access Alarm
 ☒

Select Alarm Action Profile
 

profile1

[Edit Profile](#)

- Functionality**

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

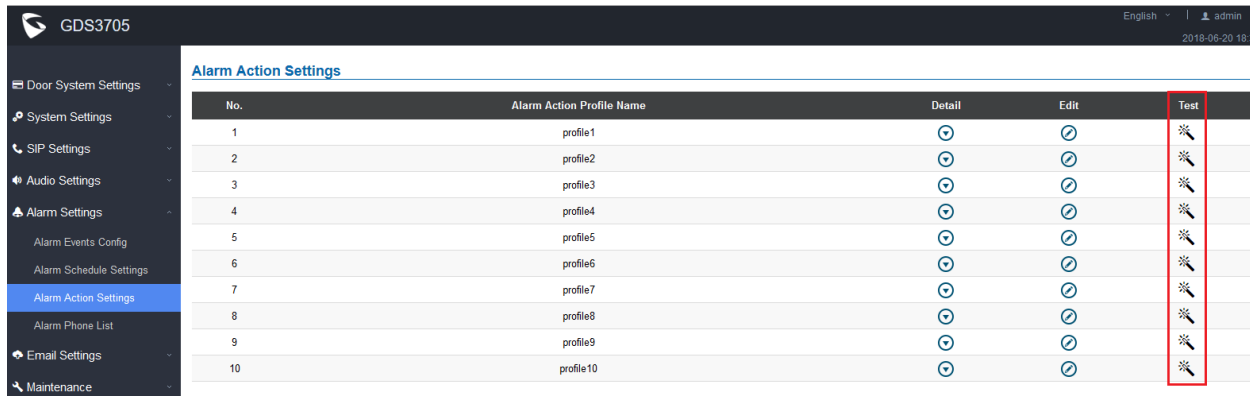
- New Pvalue**

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

## "TEST" BUTTON IN ALARM ACTION

- Web Configuration**

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



| No. | Alarm Action Profile Name | Detail | Edit | Test |
|-----|---------------------------|--------|------|------|
| 1   | profile1                  |        |      |      |
| 2   | profile2                  |        |      |      |
| 3   | profile3                  |        |      |      |
| 4   | profile4                  |        |      |      |
| 5   | profile5                  |        |      |      |
| 6   | profile6                  |        |      |      |
| 7   | profile7                  |        |      |      |
| 8   | profile8                  |        |      |      |
| 9   | profile9                  |        |      |      |
| 10  | profile10                 |        |      |      |

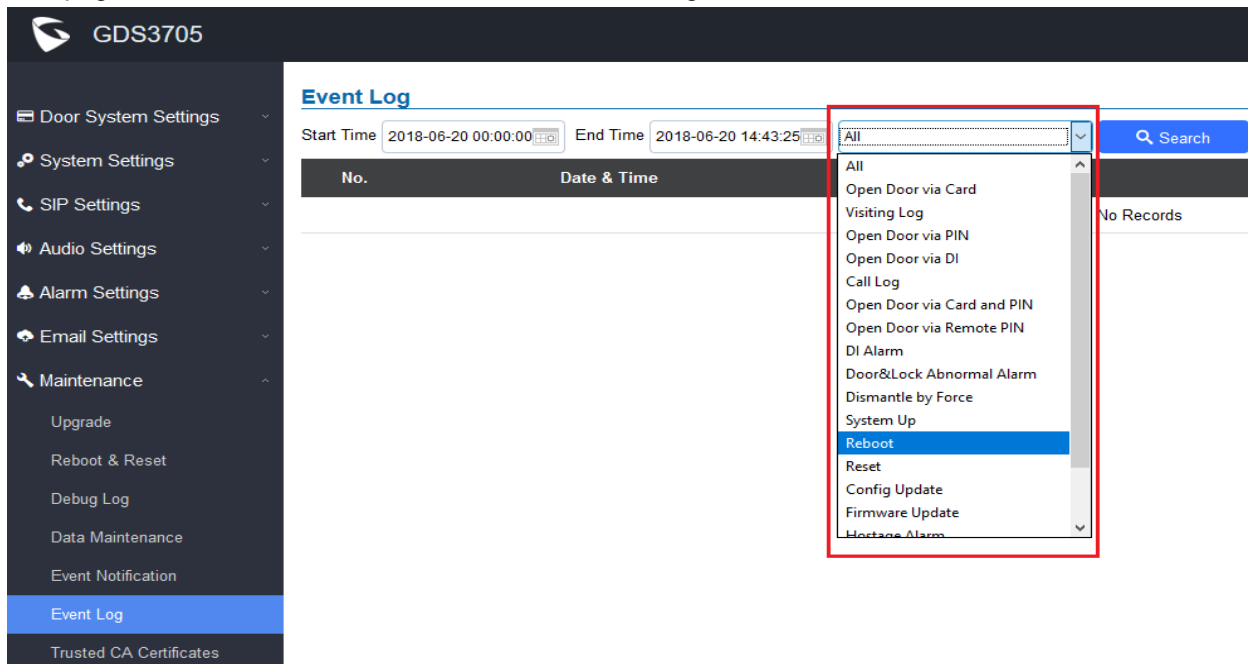
- Functionality**

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

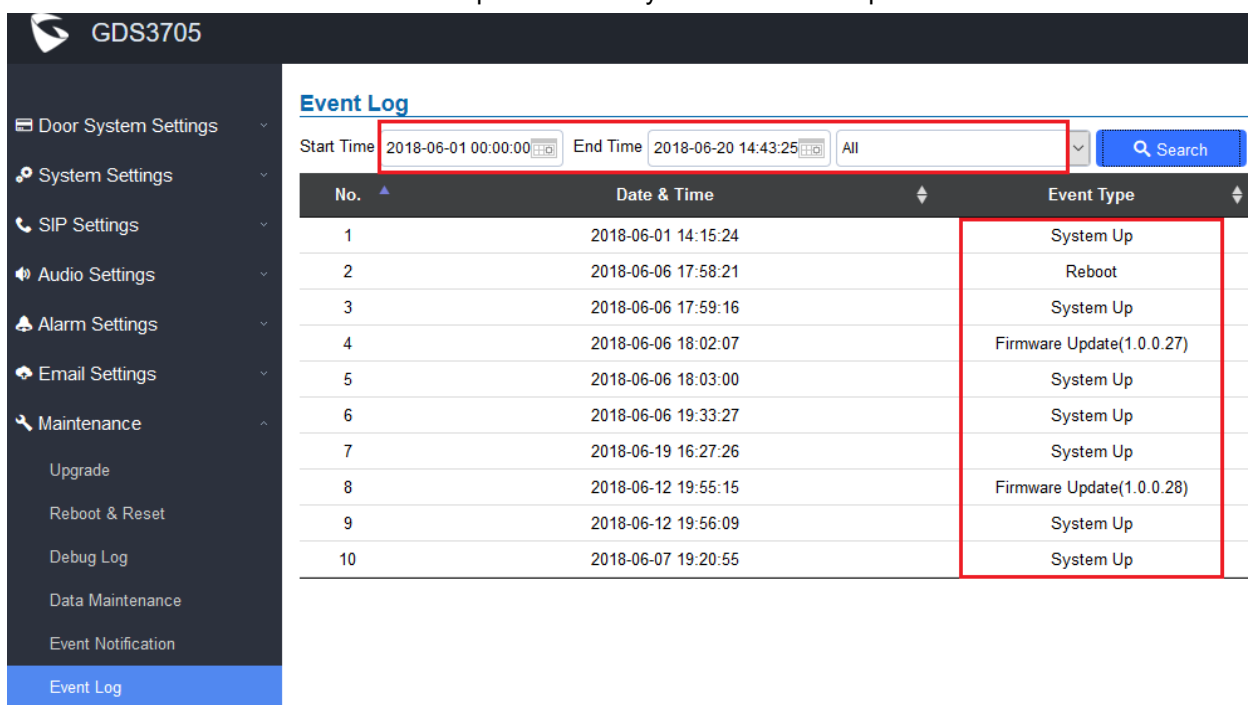
- **Web Configuration**

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:



| No. | Date & Time         | Event Type                |
|-----|---------------------|---------------------------|
| 1   | 2018-06-01 14:15:24 | System Up                 |
| 2   | 2018-06-06 17:58:21 | Reboot                    |
| 3   | 2018-06-06 17:59:16 | System Up                 |
| 4   | 2018-06-06 18:02:07 | Firmware Update(1.0.0.27) |
| 5   | 2018-06-06 18:03:00 | System Up                 |
| 6   | 2018-06-06 19:33:27 | System Up                 |
| 7   | 2018-06-19 16:27:26 | System Up                 |
| 8   | 2018-06-12 19:55:15 | Firmware Update(1.0.0.28) |
| 9   | 2018-06-12 19:56:09 | System Up                 |
| 10  | 2018-06-07 19:20:55 | System Up                 |



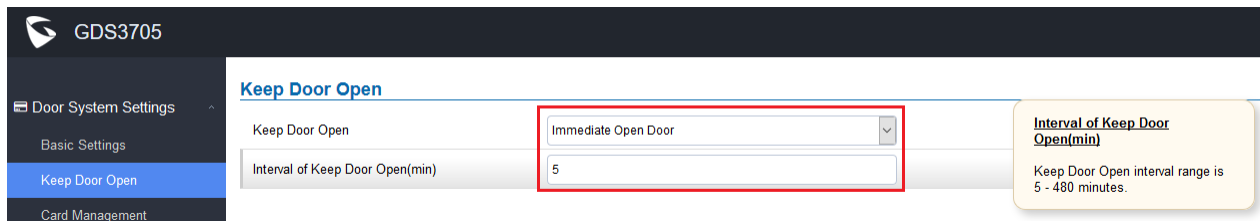
## OPEN DOOR BY CONFIGURED SCHEDULE OR TIME WINDOW

- **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)



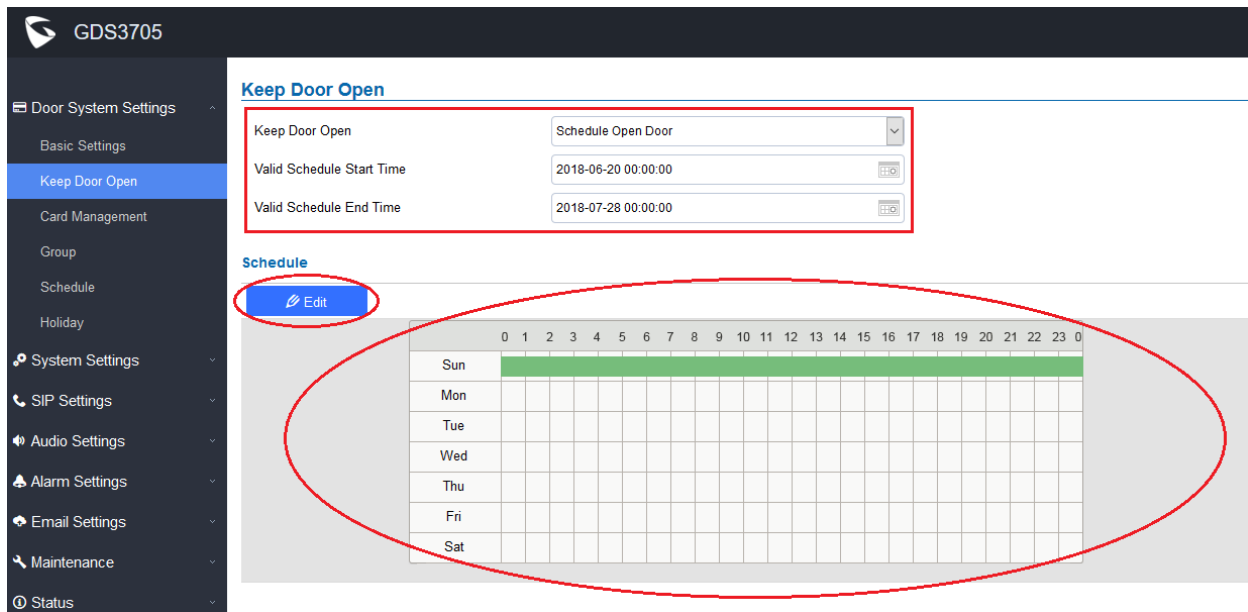
**Keep Door Open**

Keep Door Open: Immediate Open Door

Interval of Keep Door Open(min): 5

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

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



**Keep Door Open**

Keep Door Open: Schedule Open Door

Valid Schedule Start Time: 2018-06-20 00:00:00

Valid Schedule End Time: 2018-07-28 00:00:00

**Schedule**

[Edit](#)

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

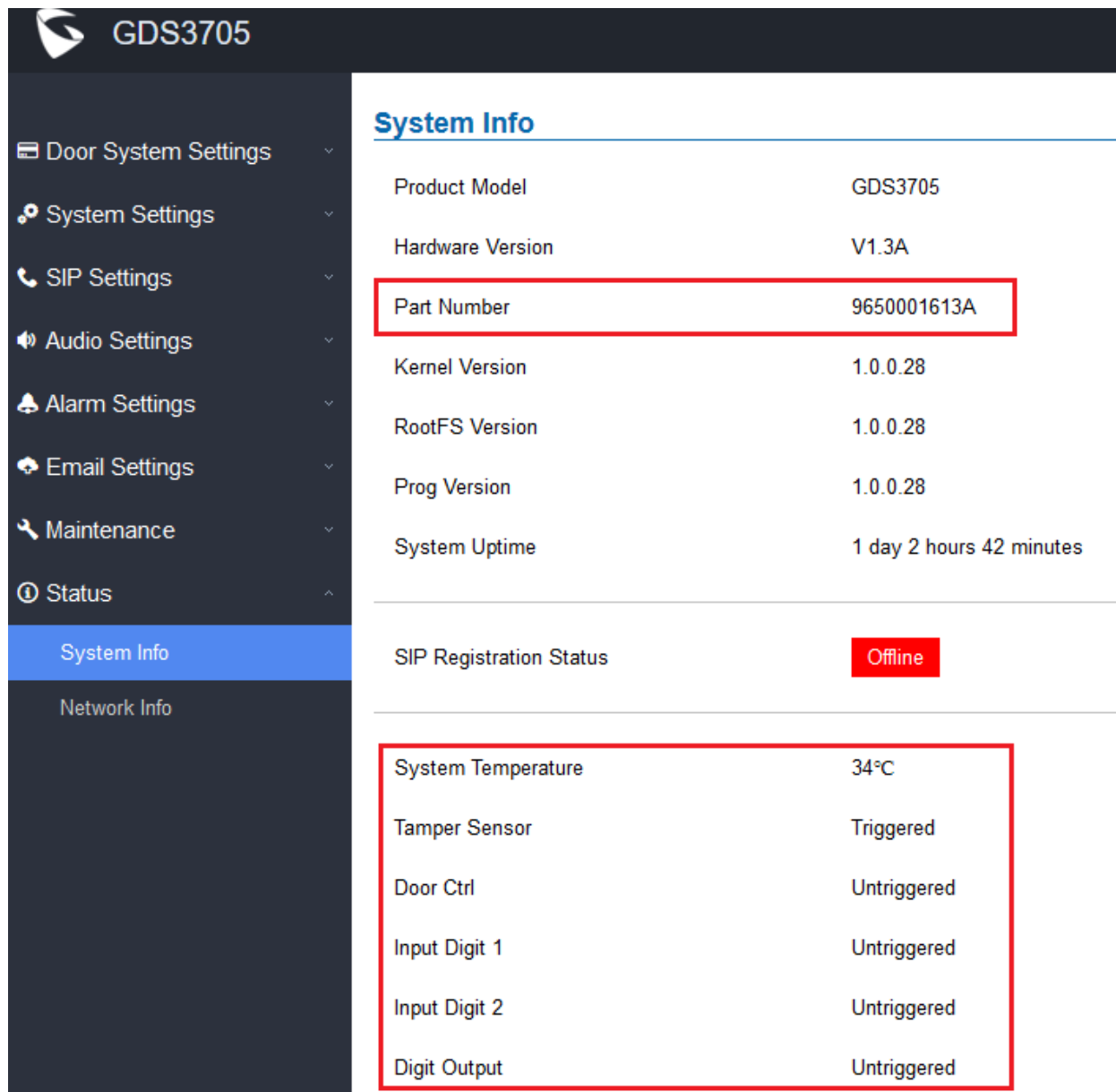
- **Functionality**

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

## MORE INFORMATION IN SYSTEM INFO PAGE

- **Web Configuration**

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



**GDS3705**

**System Info**

|                  |                          |
|------------------|--------------------------|
| Product Model    | GDS3705                  |
| Hardware Version | V1.3A                    |
| Part Number      | 9650001613A              |
| Kernel Version   | 1.0.0.28                 |
| RootFS Version   | 1.0.0.28                 |
| Prog Version     | 1.0.0.28                 |
| System Uptime    | 1 day 2 hours 42 minutes |

SIP Registration Status: **Offline**

|                    |             |
|--------------------|-------------|
| System Temperature | 34°C        |
| Tamper Sensor      | Triggered   |
| Door Ctrl          | Untriggered |
| Input Digit 1      | Untriggered |
| Input Digit 2      | Untriggered |
| Digit Output       | Untriggered |

- **Functionality**

New feature added to allow user 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 S1 Beta.

### FIRMWARE APPLIES TO BELOW HW VERSION ONLY

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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

| P-Value     | Values                   | Default Value                                 | Comments                                 |
|-------------|--------------------------|---|--|
| P6767       | 1- HTTP; 2- HTTPS        | 1   | Firmware Upgrade Via Type                |
| P6768       | <string> Max.length=512  |   | Firmware Upgrade<br>HTTP/HTTPS User Name |
| P6769       | <string> Max.length=512  |   | Firmware Upgrade<br>HTTP/HTTPS Password  |
| P8463       | 0 - Disable; 1 - Enable  | 0   | Validate Server Certificates             |
| P8433-P8438 | <string> Max.length=4096 |   | Trusted CA Certificates Files            |
| P15416      | <string> Max.length=1024 | {"mac":"\${MAC}","content":"\${WARNING_MSG}"} | Event Notification URL<br>Template       |
| P15417      | 1- HTTP; 2- HTTPS        | 1   | Event Notification Via Type              |

## NEW HTTP API

| <parameter>=<value>    | Page                       | Values    | Comments   |
|------------------------|----------------------------|-----------|--|
| P6767=<int>            | Upgrade                    | 1,2       | Firmware Upgrade Via Type                                |
| P6768=< string >       | Upgrade                    | string    | Firmware Upgrade HTTP/HTTPS User Name                    |
| P6769=< string >       | Upgrade                    | string    | Firmware Upgrade HTTP/HTTPS Password                     |
| P8463=<int>            | Upgrade                    | 0,1       | Validate Server Certificates                             |
| type=<string>          | Trusted CA<br>Certificates | trustedca | Get Trusted CA Certificates info                         |
| P8433-P8438=< string > | Trusted CA<br>Certificates | string    | Trusted CA Certificates Files                            |
| type=<string>          | eventlog                   | eventlog  | Get event log  |
| Eventtype=<int>        | eventlog                   | 100-1408  | Query event type   |
| Logstartdate=<int>     | eventlog                   |           | Query event log start date<br>e.g. 20180330 - 2018-03-30 |
| logenddate=<int>       | eventlog                   |           | Query event log end date<br>e.g. 20180330 - 2018-03-30   |
| Logstarttime=<int>     | eventlog                   |           | Query event log start time<br>e.g. 121110 - 12:11:10     |
| logendtime=<int>       | eventlog                   |           | Query event log end time<br>e.g. 121110 - 12:11:10       |
| type=<sting>           | Factory<br>Functions       | factfun   | Get Factory Functions info                               |
| audiolb=<int>          | Factory<br>Functions       | 0,1       | Audio Loopback Test:<br>1 – stop; 0 - start              |
| P15416=< string >      | Event<br>Notification      |           | Event Notification URL Template                          |
| P15417=< int >         | Event<br>Notification      | 1,2       | Event Notification Via Type                              |

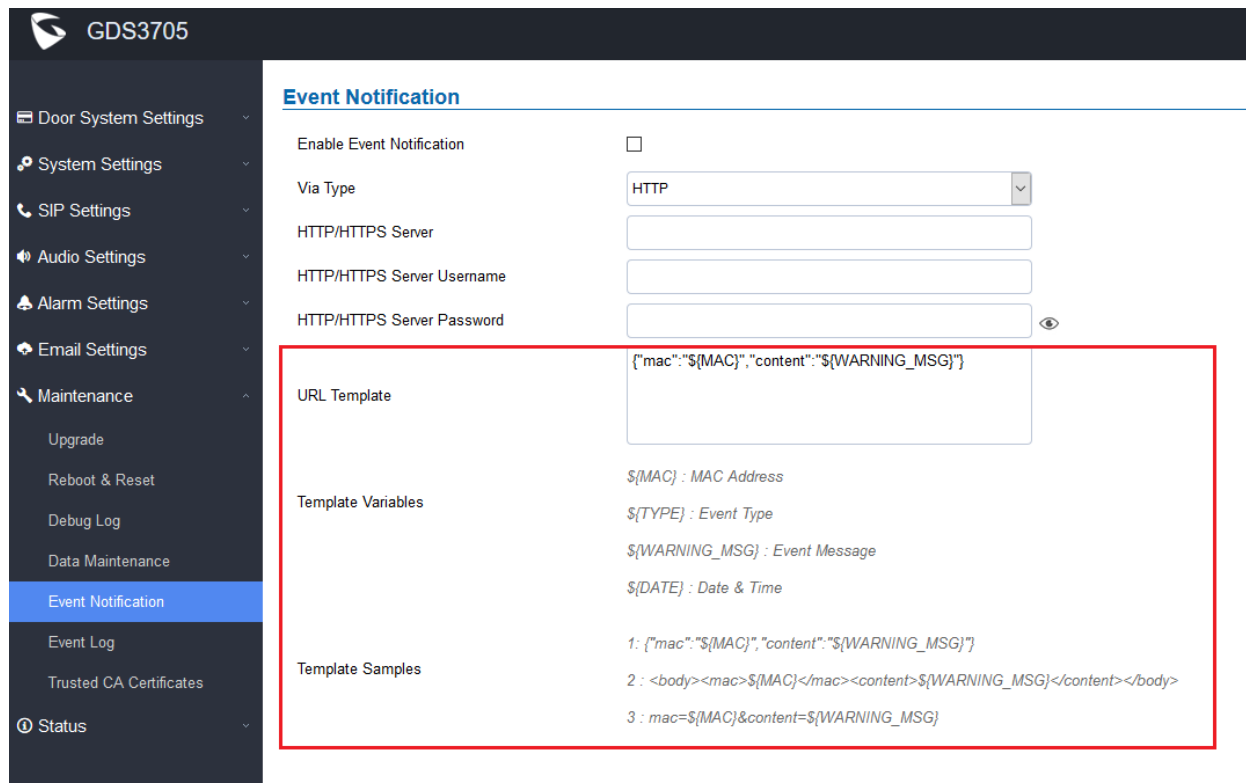
## NEW FEATURES OVERVIEW

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.



**GDS3705**

**Event Notification**

Enable Event Notification ☐

Via Type

HTTP/HTTPS Server

HTTP/HTTPS Server Username

HTTP/HTTPS Server Password

URL Template

Template Variables

*\${MAC} : MAC Address*

*\${TYPE} : Event Type*

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

*\${DATE} : Date & Time*

Template Samples

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

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

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

- Functionality**

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

- New P-Value**

| P-Value | Values                  | Default Value | Comments                              |
|---------|-------------------------|---------------|---------------------------------------|
| P6767   | 1- HTTP; 2- HTTPS       | 1             | Firmware Upgrade Via Type             |
| P6768   | <string> Max.length=512 |               | Firmware Upgrade HTTP/HTTPS User Name |
| P6769   | <string> Max.length=512 |               | Firmware Upgrade HTTP/HTTPS Password  |

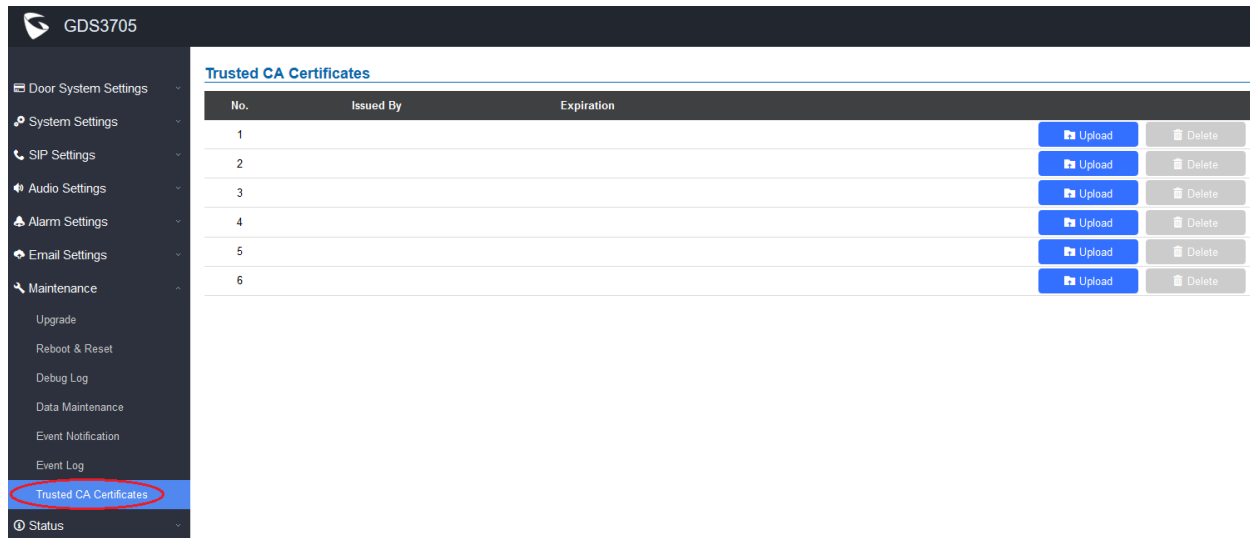
|             |                          |   |                                 |
|-------------|--------------------------|---|---------------------------------|
| P8463       | 0 - Disable; 1 - Enable  | 0   | Validate Server Certificates    |
| P8433-P8438 | <string> Max.length=4096 |   | Trusted CA Certificates Files   |
| P15416      | <string> Max.length=1024 | {"mac":"\${MAC}","content":"\${WARNING_MSG}"} | Event Notification URL Template |
| P15417      | 1- HTTP; 2- HTTPS        | 1   | Event Notification Via Type     |

## TRUSTED CA CERTIFICATES

- Web Configuration**

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

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



**GDS3705**

- Door System Settings
- System Settings
- SIP Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
  - Upgrade
  - Reboot & Reset
  - Debug Log
  - Data Maintenance
  - Event Notification
  - Event Log
  - Trusted CA Certificates**
- Status

**Trusted CA Certificates**

| No. | Issued By | Expiration | Upload | Delete |
|-----|-----------|------------|--------|--------|
| 1   |           |            | Upload | Delete |
| 2   |           |            | Upload | Delete |
| 3   |           |            | Upload | Delete |
| 4   |           |            | Upload | Delete |
| 5   |           |            | Upload | Delete |
| 6   |           |            | Upload | Delete |

- Functionality**

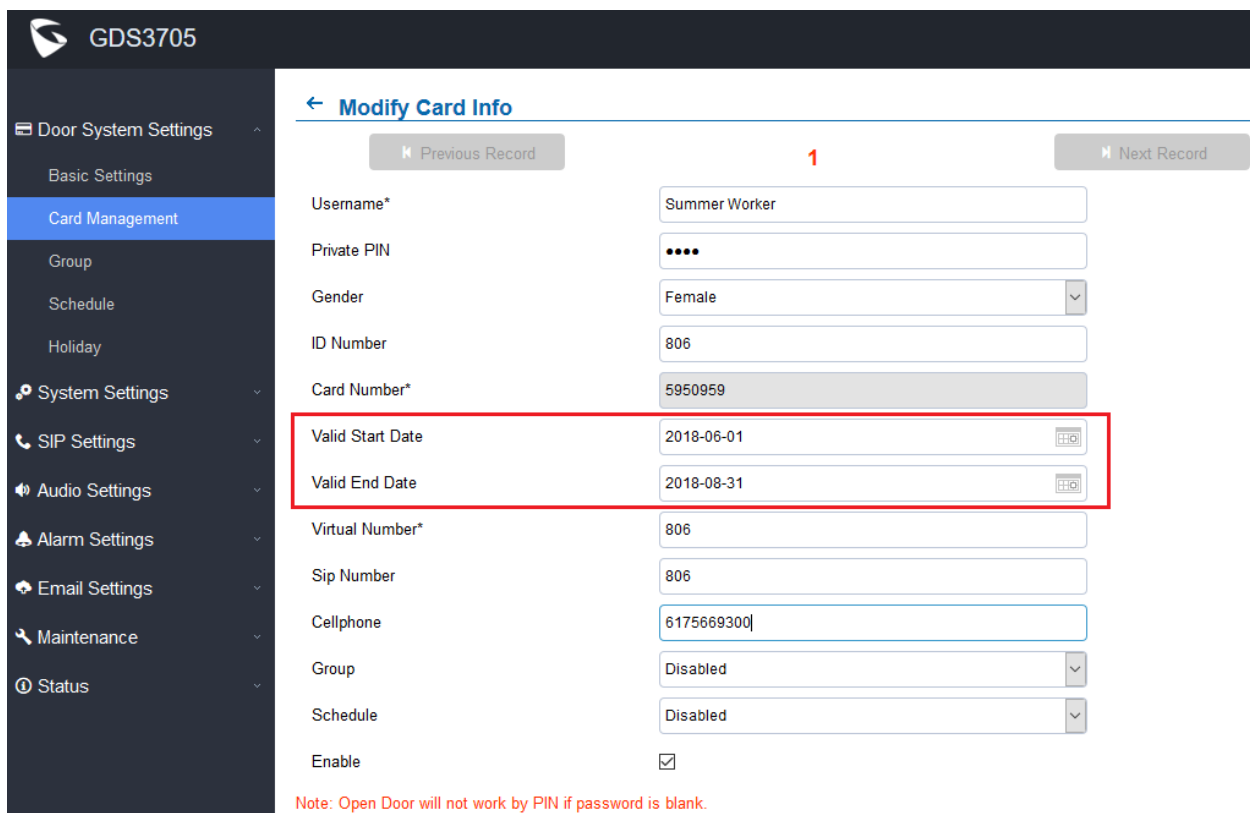
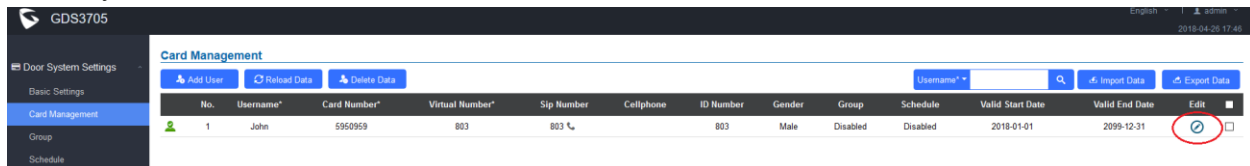
This feature allow the management of Trusted CA Certificates.

## 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 of 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.

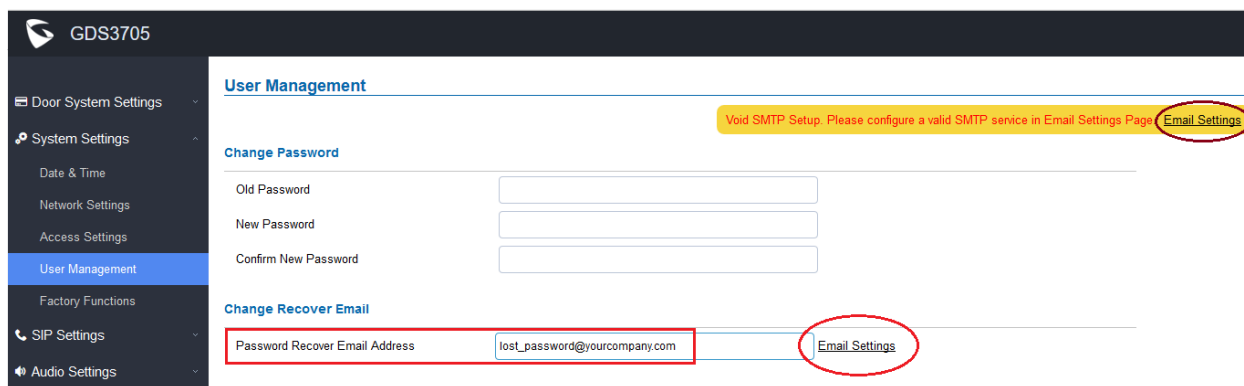
For example, customer can pre-configure the date of the cards for new employees or temporary seasoning workers and send out the cards before new employees coming to work.



## PASSWORD RECOVER EMAIL CONFIGURATION

- **Web Configuration**

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



GDS3705

**User Management**

Void SMTP Setup. Please configure a valid SMTP service in Email Settings Page [Email Settings](#)

**Change Password**

Old Password

New Password

Confirm New Password

**Change Recover Email**

Password Recover Email Address  [Email Settings](#)

- **Functionality**

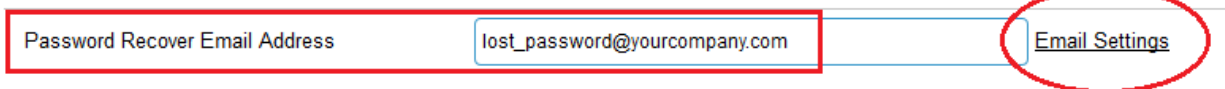
Improved this feature layout based on feedback. For security consideration, this device does not have hard reset key therefore administration password is very important. “Password Recover Email” is designed for user who lost password, but that has to be configured correctly before this can start function. 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 configured, 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.

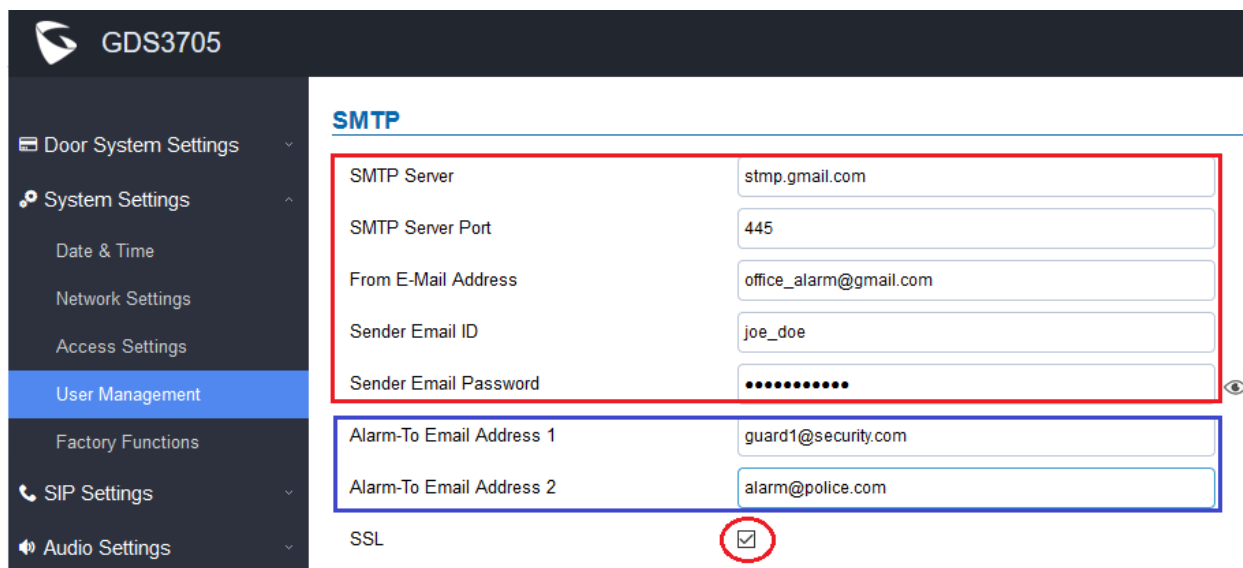
Users are strongly suggested to configure the “Password Recover Email Address”, similar to below:

#### Change Recover Email



Password Recover Email Address  [Email Settings](#)

There are two “Email Settings” in the page, click any of them will be directed to following screen:



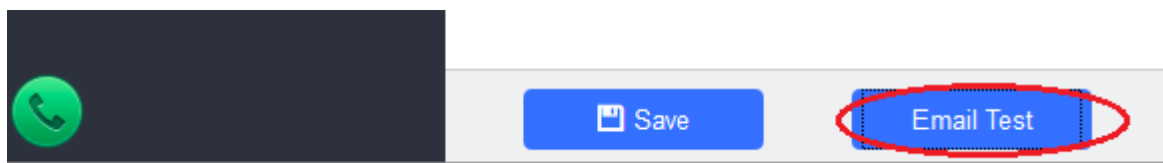
**GDS3705**




- Door System Settings
- System Settings**
  - Date & Time
  - Network Settings
  - Access Settings
  - User Management**
  - Factory Functions
- SIP Settings
- Audio Settings


### SMTP

|                          |                                     |
|--------------------------|-------------------------------------|
| SMTP Server              | smtp.gmail.com                      |
| SMTP Server Port         | 445                                 |
| From E-Mail Address      | office_alarm@gmail.com              |
| Sender Email ID          | joe_doe                             |
| Sender Email Password    | .....                               |
| Alarm-To Email Address 1 | guard1@security.com                 |
| Alarm-To Email Address 2 | alarm@police.com                    |
| SSL                      | <input checked="" type="checkbox"/> |

Once configured, user can click the “Email Test” button located at the bottom of this configuration page to test the validation of the configuration:



  Save  Email Test


GDS3705

- Door System Settings
- System Settings
  - Date & Time
  - Network Settings
  - Access Settings
  - User Management
  - Factory Functions
- SIP Settings
- Audio Settings
- Alarm Settings
- Email Settings
- Maintenance
- Status

### SMTP

|                       |                        |
|-----------------------|------------------------|
| SMTP Server           | smtp.gmail.com         |
| SMTP Server Port      | 445                    |
| From E-Mail Address   | office_alarm@gmail.com |
| Sender Email ID       | joe_doe                |
| Sender Email Password | ••••••••               |

|                          |                     |
|--------------------------|---------------------|
| Alarm-To Email Address 1 | guard1@security.com |
| Alarm-To Email Address 2 | alarm@police.com    |

SSL ☒

Save

Email Test

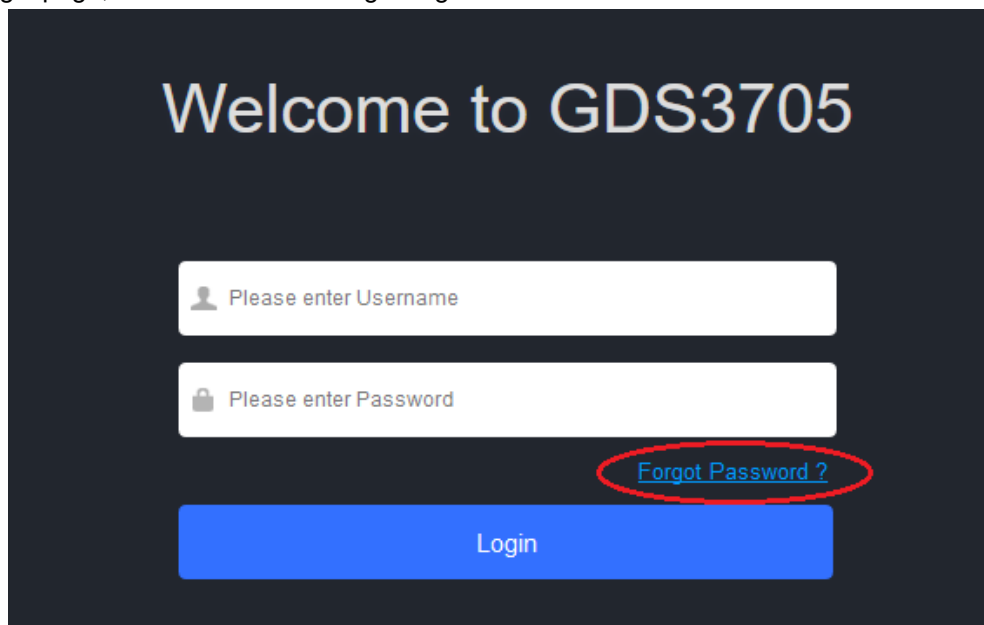
Copyright © Grandstream Netw

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.**

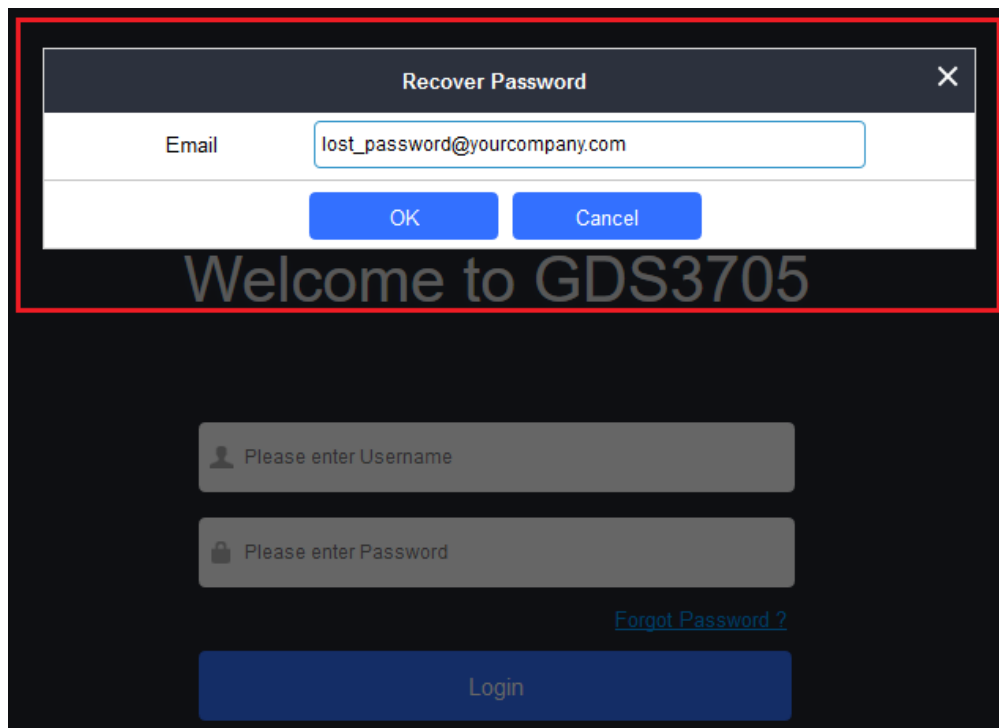
## 2) Login Page

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



The screenshot shows the login page for GDS3705. It has a dark background with the text "Welcome to GDS3705" at the top. Below this are two white input fields: "Please enter Username" and "Please enter Password". To the right of the password field is a blue link "Forgot Password ?" which is circled in red. At the bottom is a large blue button labeled "Login".

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

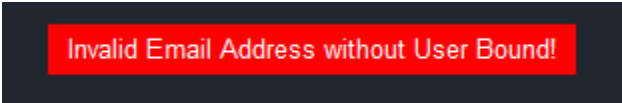


The screenshot shows a "Recover Password" dialog box overlaid on the login page. The dialog box has a title bar "Recover Password" with a close button (X). It contains an "Email" label and a text input field with the value "lost\_password@yourcompany.com". Below the input field are two buttons: "OK" and "Cancel". The background login page is dimmed, showing the "Welcome to GDS3705" text and the "Forgot Password ?" link.

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.



Invalid Email Address without User Bound!

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 could 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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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 3<sup>rd</sup> 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.

## NEW P-VALUE

| P-Value | Values                  | Default Value | Comments             |
|---------|-------------------------|---------------|----------------------|
| P15410  | 0- Disable 1- Enable    | 0             | Enable Log Reporting |
| P15413  | <string> Max.length=256 |               | HTTP Server URL      |
| P15414  | <string> Max.length=128 |               | HTTP Server Username |
| P15415  | <string> Max.length=128 |               | HTTP Server Password |

## NEW HTTP API

| <parameter>=<value> | Page        | Values  | Comments   |
|---------------------|-------------|---------|--|
| type=<string>       | System info | sysinfo | Get all log sysinfo parameter  |
| doorctrl=<int>      | System info | 0,1, -1 | Door Ctrl status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown    |
| atp_in =<int>       | System info | 0,1, -1 | TamperSensor status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown |
| di0 =<int>          | System info | 0,1, -1 | DI0 status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown          |
| di1 =<int>          | System info | 0,1, -1 | DI1 status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown          |
| do =<int>           | System info | 0,1, -1 | DO status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown           |
| systemp =<int>      | System info | 0,1, -1 | System Temperature (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown  |

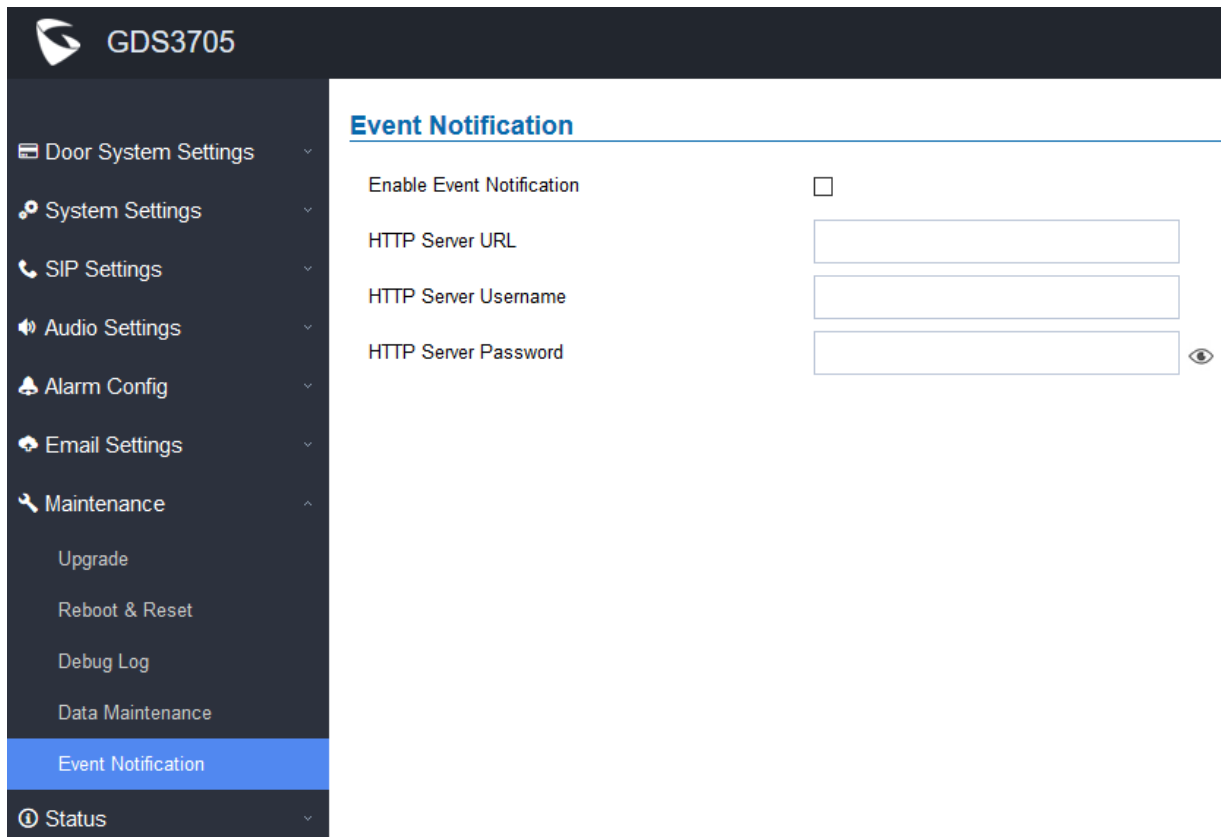
## NEW FEATURES OVERVIEW

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 allow 3<sup>rd</sup> party HTTP Server to collect event notification lively from GDS3705. Server URL, Username and Password are required to authenticate the operation.

- **New P-Value**

| P-Value | Values                  | Default Value | Comments             |
|---------|-------------------------|---------------|----------------------|
| P15410  | 0- Disable 1- Enable    | 0             | Enable Log Reporting |
| P15413  | <string> Max.length=256 |               | HTTP Server URL      |
| P15414  | <string> Max.length=128 |               | HTTP Server Username |
| P15415  | <string> Max.length=128 |               | HTTP Server Password |




## 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


**GDS3705**

- Door System Settings
- System Settings
- SIP Settings
- Audio Settings
- Alarm Config
- Email Settings
- Maintenance
- Status
- System Info**
- Network Info

### System Info

|                      |                            |
|----------------------|----------------------------|
| Product Model        | GDS3705                    |
| Hardware Version     | V1.4A                      |
| Part Number          | 9650001614A                |
| Kernel Version       | 1.0.0.23                   |
| RootFS Version       | 1.0.0.23                   |
| Prog Version         | 1.0.0.23                   |
| System Up Time Since | 4 days 22 hours 54 minutes |
| SIP Registered       | Offline                    |
| System Temperature   | 37°C                       |
| Tamper Sensor        | Triggered                  |
| Door Ctrl            | Untriggered                |
| Digital Input 1      | Untriggered                |
| Digital Input 2      | Untriggered                |
| Digital Output       | Untriggered                |

- Functionality**

This feature will notify user the operation status of GDS3705

- **New HTTP API**

| <parameter>=<value> | Page        | Values  | Comments   |
|---------------------|-------------|---------|--|
| type=<string>       | System info | sysinfo | Get all log sysinfo parameter  |
| doorctrl=<int>      | System info | 0,1, -1 | Door Ctrl status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown    |
| atp_in =<int>       | System info | 0,1, -1 | TamperSensor status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown |
| di0 =<int>          | System info | 0,1, -1 | DI0 status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown          |
| di1 =<int>          | System info | 0,1, -1 | DI1 status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown          |
| do =<int>           | System info | 0,1, -1 | DO status (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown           |
| systemp =<int>      | System info | 0,1, -1 | System Temperature (only get)<br>0 - Untriggered,<br>1 - Triggered,<br>-1 - Unknown  |

## 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

| HW Version     | FW  | Comments  |
|----------------|-----|---|
| GDS3705 HW1.1A | YES |   |
| GDS3705 HW1.2A | YES |   |
| GDS3705 HW1.3A | YES |   |
| GDS3705 HW1.4A | YES | FW1.0.0.20 as Initial Version for this HW version |

### 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