

Grandstream Networks, Inc.

GDS372x - HTTP API Guide



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Introduction

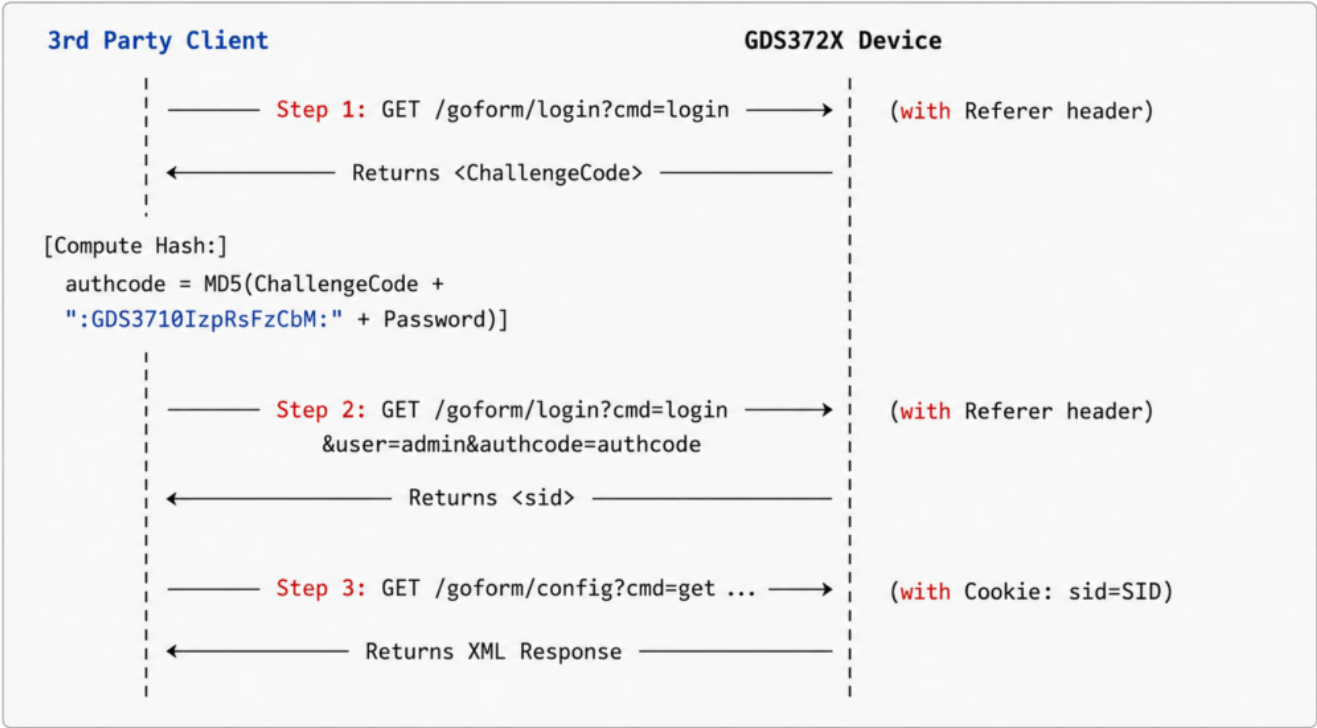
This document details the HTTP API endpoints, commands, and schemas supported by the GDS372X Smart Door System. It is intended for developers integrating the device into custom applications or access control platforms. The API is designed for compatibility with the GDS37XX HTTP API, allowing existing integrations to migrate with minimal changes, while noting cases where Pvalue behavior diverges between the two product lines.

Coverage includes card management, access control and door-open settings, SIP configuration, video and privacy mask settings, alarm and network configuration, user management, firmware upgrade, system diagnostics, and media capture. Each endpoint lists supported methods, parameters, and response schemas, along with authentication/session behavior. A version history tracks API changes across development

1. Authentication & Session Management

To ensure API security, the GDS372X uses a **Challenge-Response** authentication mechanism. Subsequent requests must verify identity by including the returned Session ID (sid) in the request's HTTP Cookie header.

1.1 Authentication Workflow



Referer Header Requirement: All authentication and API requests must include the Referer header matching the device's origin (e.g., Referer: `https://`). Failure to include this header may cause the request to be rejected with authentication errors due to built-in security protections.

1.2 Step 1: Challenge Code Request

Retrieve a one-time challenge token.

Endpoint: /goform/login

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: login

Request Headers:

```
Referer: https: /<IP>/
```

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>  
<ChallengeCode>8d6a7f828ab1dcf0c39f041235abc74e</ChallengeCode></Configuration>
```

1.3 Step 2: Authentication Login

Submit the calculated authcode signature to establish a valid session.

Endpoint: /goform/login

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: login
user	String	Yes	-	Username (e.g., admin)
authcode	String	Yes	-	Authenticated login signature

Request Headers:

```
Referer: https: /<IP>/
```

Authcode Calculation:

```
authcode = MD5(ChallengeCode + :GDS3710lZpRsFzCbM: + AdminPassword)
```

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>  
<sid>bfc479196522f5072bc4d4b04f366814203466e3120ca171196bc732485447c</sid></Configuration>
```

Note: Save the <sid> value to pass in subsequent request cookies (Cookie: sid=bfc479196522 ...).

1.4 Quick-Start Bash Example

Here is a reference shell script snippet showing how to implement this flow programmatically using curl and sed :

```
authcode = MD5(ChallengeCode + :GDS3710lZpRsFzCbM: + AdminPassword)
```

```
#!/bin/bash
```

```
IP="192.168.1.162"
```

```
PASSWORD="admin"
```

```

#1.Get Challenge Token
challenge_resp=$(curl -s -L -k -H "Referer: https://$IP/" "https://$IP/goform/login?cmd=login")
token=$(echo "$challenge_resp" | sed -n 's/.*<ChallengeCode>\([^<]*\)<\/ChallengeCode>.*\/\1/p' | tr -d '\r')

if [ -z "$token" ]; then
echo "Failed to retrieve Challenge Code."
exit 1
fi
echo "Challenge Code: $token"

#2.Compute Authcode MD5
raw_str="$token:GDS3710LZpRsFZCbM:$PASSWORD"
authcode=$(echo -n "$raw_str" | md5sum | cut -d' ' -f1)
echo "Authcode: $authcode"

#3.Log In to Retrieve SID
login_resp=$(curl -s -L -k -H "Referer: https://$IP/"
"https://$IP/goform/login?cmd=login&user=admin&authcode=$authcode")
res_code=$(echo "$login_resp" | sed -n 's/.*<ResCode>\([^<]*\)<\/ResCode>.*\/\1/p' | tr -d '\r')

if [ "$res_code" = "0" ]; then
SID=$(echo "$login_resp" | sed -n 's/.*<sid>\([^<]*\)<\/sid>.*\/\1/p' | tr -d '\r')
echo "Login Successful! Session ID (SID): $SID"

#Example subsequent call using the session ID
curl -s -L -k -H "Referer: https://$IP/" -H "Cookie: sid=$SID"
"https://$IP/goform/config?cmd=get&type=user_list&page=1&page_size=5"
else
echo "Login Failed."
exit 1
fi

```

1.5 Session Expiration & Re-Authentication

When a session expires (e.g., due to inactivity timeout) or becomes invalid (e.g., after a device reboot), subsequent API requests will fail authentication.

1.5.1 Expiration Indicators

- **HTTP Status Code:** The server will respond with HTTP status 401 Unauthorized or 403 Forbidden.
- **Response Body:** The response body will contain text or tags indicating authentication failure, such as "Unauthorized" or "session expired".

1.5.2 Recommended Client Re-Authentication Strategy

Clients should wrap API HTTP calls with auto-reauthentication logic. When the indicators above are matched, the client should automatically: 1. Re-initiate the Challenge-Response login sequence to retrieve a new session ID (sid). 2. Re-send the failed API request with the updated sid cookie.

2. Card & User Management

2.1 GET User List

Query registered cards and RFID credentials page-by-page.

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: get
type	String	Yes	-	Fixed value: user_list
page	Int	Yes	-	Page index (1-indexed).
page_size	Int	Yes	-	Number of entries to retrieve per page.

Request Example:

```
https://192.168.1.162/goform/config?cmd=get&type=user_list&page=1&page_size=10
```

Response (XML):

Success Response:

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<total>16</total> <item> <uuid>658</uuid> <enable_card>1</enable_card>
<username>test_http_user_5959</username> <user_id>5959</user_id> <card_num>10007239</card_num>
<account>0</account> <gender>2</gender> <group_id>1</group_id> <SOD>19700101080000</SOD>
<EOD>20991231000000</EOD> <sch_id>0</sch_id> <card_type>0</card_type> <app_user>255</app_user>
<ic_valid>1</ic_valid> <door_ctrl_0>1</door_ctrl_0> <door_ctrl_1>1</door_ctrl_1>
<app_door_option_0>1</app_door_option_0> <app_door_option_1>1</app_door_option_1>
<app_door_option_2>1</app_door_option_2> <app_door_option_3>1</app_door_option_3>
<add_time>20260525173743</add_time> </item></Configuration>
```

2.2 ADD Card

Add a new RFID card/pin credential.

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: add
user_id	String	Conditional	-	Unique User ID of the card owner. Required unless ID is provided.
username	String	No	-	Username of the card owner.
card_num	String	No	-	Physical RFID card number.
enable_card	Int	No	1	Card active status. 0 : Disabled, 1 : Enabled.

card_type	Int	No	255	Type of card. 0 : ID card, 1 : IC card, 255 : Unknown. If card_num is set, card_type MUST be 0 or 1, otherwise the card cannot be used.
group_id	Int	No	0	Permission group index. 0 : No group (default).
door_ctrl_0	Int	No	-	Relay 1 open permission. 0 : Denied, 1 : Allowed.
door_ctrl_1	Int	No	-	Relay 2 open permission. 0 : Denied, 1 : Allowed.
app_door_option_0	Int	No	-	Mobile app door 1 option control.
app_door_option_1	Int	No	-	Mobile app door 2 option control.
app_door_option_2	Int	No	-	Mobile app door 3 option control.
app_door_option_3	Int	No	-	Mobile app door 4 option control.
ID	String	Conditional	-	Legacy compatibility parameter. Required unless user_id is provided. If specified, it will automatically fallback to user_id (if empty) and card_num (if empty).

Request Example:

```
https://192.168.1.162/goform/config?cmd=add&user_id=5959&username=test_http_user&card_num=10007239&enable_card=1&card_type=0&group_id=1&door_ctrl_0=1&door_ctrl_1=1&app_door_option_0=1&app_door_option_1=1&app_door_option_2=1&app_door_option_3=1
```

Response (XML):

Success Response:

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg> <uuid>665</uuid></Configuration>
```

2.3 DEL Card

Delete a credential. Multiple IDs or UUIDs can be comma-separated.

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: del
uuid	String	Yes (if ID empty)	-	Database UUID of the card to delete (supports comma-separated list).
ID	String	No	-	Legacy compatibility fallback for uuid (supports comma-separated list).

Batch Delete Constraint: A maximum of 20 card credentials can be deleted in a single batch request via comma-separated list. Any IDs exceeding this limit are ignored/truncated.

Request Example:

Delete Single Card by UUID:

```
https: /192.168.1.162/goform/config?cmd=del&uuid=665
```

Batch Delete Cards by Legacy ID:

```
https: /192.168.1.162/goform/config?cmd=del&ID=99991,99992,99993
```

Response (XML):

Success Response:

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

2.4 SET/Modify Card

Modify an existing card credential.

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: set
uuid	String	Yes (if ID is empty)	-	Database UUID of the card to modify.
ID	String	No	-	Legacy compatibility fallback for uuid.
username	String	No	-	Updated username of the card owner.

Request Example:

```
https: /192.168.1.162/goform/config?cmd=set&uuid=665&username=updated_http_user
```

Response (XML):

Success Response:

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

2.5 Card & User Field Reference

The table below describes all user and card credential fields returned in the <item> list or query details:

XML Tag Name	Type	Description	Range / Format
uuid	String	Unique database identifier for the card/credential.	e.g. "659"
ID	String	Input compatibility query parameter fallback. Note: Not returned in responses.	e.g. "258974"
enable_card	String (Numeric)	Active status of the card.	"0" : Disabled, "1" : Enabled
username	String	Username of the card owner.	Max length 32 characters
user_id	String	Unique User ID of the card owner.	Max length 32 characters

card_num	String	RFID Card Number (physical card ID).	Max length 32 characters
passwd	String	Local private door PIN code.	Max length 8 digits
gender	String (Numeric)	Gender of the user.	"0" : Male, "1" : Female, "2" : Other/Secret
identify_num	String	National ID or Social Security Number.	Max length 32 characters
room_num	String	Room or apartment number.	Max length 16 characters
sip_num	String	SIP extension number associated with the user.	Max length 32 characters
account	String (Numeric)	SIP account index used for call routing.	"0" to "4"
group_id	String (Numeric)	Permission group index.	"0" (Default, no group), "1", etc.
sch_id	String (Numeric)	Time schedule ID associated with the card.	"0" (No schedule), etc.
card_type	String (Numeric)	Type of card credential.	"0" : ID card, "1" : IC card, "255" : Unknown (default)
app_user	String (Numeric)	Application type identifier.	"255" : Normal user, "2" : App admin, "0" : App user, "1" : App visitor
ic_valid	String (Numeric)	Card verification validity.	"0" : Invalid, "1" : Valid
SOD	String	Start of Date (validation start timestamp).	YYYYMMDDhhmmss (e.g. 19700101080000)
EOD	String	End of Date (validation expiration timestamp).	YYYYMMDDhhmmss (e.g. 20991231000000)
door_ctrl_0 / door_ctrl_1	Array / Flat Tags	Relay open permission list.	Flat elements <door_ctrl_X>1 /door_ctrl_X> inside XML
app_door_option_0 ... _3	Array / Flat Tags	App doors option list.	Flat elements <app_door_option_X>1 /app_door_option_X> inside XML
add_time	String	Timestamp when the card was created.	YYYYMMDDhhmmss

3. Card Data Import/Export

3.1 Export User File

Export user credentials, access records, or alarm histories.

Endpoint: /goform/config

Method: GET (for single-step direct download)

When requested via GET without a request body, the API directly performs a synchronous export and returns the raw CSV file as binary data. This path bypasses client Accept headers (e.g., application/xml) to prevent returning wrapped payloads.

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: export

type	String	Yes	-	The type of data to export: 1 : Card Data (Downloads card.csv) door_record : Door Logs (Downloads door_record.csv) alarm_record : Alarm Logs (Downloads alarm.csv) card_issuing_failed : Failed Card Issuance Records (Downloads issuing_failed.csv)
data_type	Int	No	-	Format/Data type indicator. Set to 1 (CSV format).

Request Examples:

Export Card Data:

```
GET /goform/config?cmd=export&type=1&data_type=1 HTTP/1.1Cookie: sid=<session_id>Accept: */*
```

Export Door Logs:

```
GET /goform/config?cmd=export&type=door_record&data_type=1 HTTP/1.1Cookie: sid=<session_id>Accept: */*
```

Export Alarm Logs:

```
GET /goform/config?cmd=export&type=alarm_record&data_type=1 HTTP/1.1Cookie: sid=<session_id>Accept: */*
```

Response Headers:

```
Content-Type: application/octet-streamContent-Disposition: attachment; filename="<filename>.csv"
```

Response Content:

Raw CSV file content.

3.2 Import User File

Import/Upload card list back to the GDS device.

Endpoint: /goform/config

Method: POST (Multipart file upload)

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: upload
type	Int	Yes	-	Fixed value: 0 (indicates card data import)
dupopt	Int	Yes	-	How to handle duplicate entries: 0 : Keep existing records (Skip duplicates) 1 : Replace existing records with imported ones
data_type	Int	No	1	Format/Data type indicator. Set to 1 (CSV format).

Request Payload: Multipart form-data with the CSV file attached under the field name file.

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

4. Door Settings & Access Control

4.1 Remote Open Door (Challenge+Response)

Trigger door strike via authenticated challenge.

4.1.1 Get Open Door Challenge (GET)

Retrieve the one-time challenge token (ChallengeCode) and IDCode required for the door command.

Endpoint: /goform/apicmd

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	Int	Yes	-	Fixed value: 0

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>  
<ChallengeCode>8d6a7f828ab1dcf0c39f041235abc74e</ChallengeCode> <IDCode>1</IDCode></Configuration>
```

4.1.2 Send Door Open Command (GET)

Initiate the open/close command using the authenticated signature.

Endpoint: /goform/apicmd

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	Int	Yes	-	Fixed value: 1
authcode	String	Yes	-	Authenticated signature calculated using remote PIN and admin password
idcode	String	Yes	-	One-time ID code retrieved from challenge request
type	String	Yes	-	Action to perform: open or close

Authcode Calculation:

```
authcode = MD5(ChallengeCode + ":" + RemotePIN + ":" + AdminPassword)
```

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>  
<RetMsg>OK</RetMsg></Configuration>
```

4.2 Door Basic Settings

Configure door locks, Wiegand, RS485 OSDP, snapshots, remote unlock credentials, and doorbell targets using NVRAM P-values.

Endpoint: /goform/config

Method: GET

Parameters: cmd=set&P<P-VALUE>=<VALUE>&.

```
authcode = MD5(ChallengeCode + ":" + RemotePIN + ":" + AdminPassword)
```

4.2.1 Door Access Basic Settings

P-value	Alias / Config Path	Type	Description	Default / Range
P15440	doorAccess.doorRelay.type	Number	Local Lock/Relay Type selection	0 : Internal Lock, 1 : Wiegand Lock, 2 : Web Relay
P15453	doorAccess.relayOut1.type	Number	Relay Out 1 Working Mode	1 : Lock Control, 2 : Alarm Output, 3 : Doorbell Output, etc.
P15454	doorAccess.relayOut1.status	Number	Relay Out 1 Status configuration	0 : Normal Open, 1 : Normal Close
P15465	doorAccess.relayOut1.delayBeforeUnlock	Number	Relay Out 1 Delay before unlock / open	0 to 20 (seconds)
P15466	doorAccess.relayOut1.unlockHoldTime	Number	Relay Out 1 Unlock Hold Time / open duration	1 to 1800 (seconds)
P15450	doorAccess.relayOut2.type	Number	Relay Out 2 Working Mode	0 : Electric Strike, 1 : Alarm Output, 2 : Doorbell Output, etc.
P15470	doorAccess.relayOut2.status	Number	Relay Out 2 Status configuration	0 : Normal Open, 1 : Normal Close
P14100	doorAccess.relayOut2.delayBeforeUnlock	Number	Relay Out 1 Delay before unlock/open	0 to 20 (seconds)
P14101	doorAccess.relayOut2.unlockHoldTime	Number	Relay Out 2 Unlock Hold Time / open duration	1 to 1800 (seconds)
P15680	doorAccess.relayOut1.name	String	Custom display name for Relay Out 1	Max 32 chars
P15681	doorAccess.relayOut2.name	String	Custom display name for Relay Out 2	Max 32 chars
P14120	doorAccess.wiegand.input.enable	Number	Wiegand Port Input/Output Mode	0 : Wiegand Output, 1 : Wiegand Input
P14121	doorAccess.wiegand.outputMode	Number	Wiegand Control Mode	0 : Disabled, 1 : Relay & Local Auth, 2 : Relay & Bypass Local
P15468	doorAccess.wiegand.controlOptions	Number	Wiegand Control Options mode	e.g. 2
P15607	doorAccess.wiegand.outputBits	Number	Wiegand Output Bit Format	26 (bits), 34 (bits), etc.
P16001	doorAccess.wiegand.outputPinMode	Number	Wiegand Output Pin Mode	e.g. 0
P14341	alarm.digitalOutput2.holdTime	Number	Digital Output 2 (DO2) Hold Time	1 to 1800 (seconds)
P14342	alarm.digitalOutput1.holdTime	Number	Digital Output 1 (DO1) Hold Time	1 to 1800 (seconds)
P15301	doorAccess.gdsManager.enable	Number	Enable Central GDS Manager software control	0 : Disabled, 1 : Enabled
P15409	doorAccess.snapshot.doorbell.email.enable	Number	Enable email snapshot on doorbell ring	0 : Disabled, 1 : Enabled
P15471	doorAccess.snapshot.doorOpened.email.enable	Number	Enable email snapshot when door is opened	0 : Disabled, 1 : Enabled
P15474	doorAccess.snapshot.door1Opened.number	Number	Number of snapshots to take on door opened	1 to 10

P15511	doorAccess.snapshot.doorbell.delay	Number	Snapshot delay time on doorbell event	0 to 10 (seconds)
P15513	doorAccess.snapshot.doorOpened.app.enable	Number	Enable mobile App snapshot on door opened	0 : Disabled, 1 : Enabled
P15517	doorAccess.snapshot.doorbell.app.enable	Number	Enable mobile App snapshot on doorbell ring	0 : Disabled, 1 : Enabled
P15583	doorAccess.snapshot.doorOpened.delay	Number	Snapshot delay time on door opened	0 to 10 (seconds)
P15971	doorAccess.snapshot.openDoor.enable	Number	Enable snapshot when door is unlocked	0 : Disabled, 1 : Enabled

4.2.2 Open Door Settings

P-value	Alias / Config Path	Type	Description	Default / Range
P10457	doorAccess.openDoor1.remotePin	String	Remote PIN to unlock Door 1 (SIP DTMF command)	Max 8 digits
P15460	doorAccess.openDoor2.remotePin	String	Remote PIN to unlock Door 2 (SIP DTMF command)	Max 8 digits
P14829	doorAccess.swipingCard.interval	Number	Minimum interval delay between successive card swipes	0 to 2000 (ms, default 300)
P14858	doorAccess.openDoor.remoteDtmf.enable	Number	Enable remote door open by DTMF keys during calls	0 : Disabled, 1 : Enabled
P14859	doorAccess.openDoor.remoteSip.enable	Number	Enable remote door open via SIP MESSAGE	0 : Disabled, 1 : Enabled
P15424	doorAccess.openDoor.httpApi.enable	Number	Remote HTTP API Door Open authorization mode	0 : Disabled, 1 : Challenge-Response, 2 : Basic Auth
P15573	doorAccess.openDoor.httpApi.compatibility.enable	Number	Enable legacy GDS HTTP API compatibility mode (ID parameter)	0 : Disabled, 1 : Enabled
P15479	doorAccess.openDoor.nfc.enable	Number	Enable NFC smart open door via mobile credentials	0 : Disabled, 1 : Enabled
P15632	doorAccess.openDoor.nfc.timeout	Number	NFC detection card read timeout	50 to 2000 (milliseconds)
P15484	doorAccess.openDoor.appbtn.enable	Number	Enable remote open door via mobile App control buttons	0 : Disabled, 1 : Enabled
P15485	doorAccess.openDoor.qrcode.enable	Number	Enable scanning dynamic access QR codes to unlock	0 : Disabled, 1 : Enabled
P15691	doorAccess.openDoor.staticQrcode.enable	Number	Enable scanning static access QR codes to unlock	0 : Disabled, 1 : Enabled
P15486	doorAccess.openDoor.ble.enable	Number	Enable Bluetooth Low Energy (BLE) open door	0 : Disabled, 1 : Enabled
P15487	doorAccess.openDoor.ble.sensitivity	Number	Bluetooth BLE signal detection sensitivity level	1 (High) to 5 (Low)
P15488	doorAccess.openDoor.ble.interval	Number	Bluetooth BLE scanning broadcast interval	1 to 60 (seconds)
P15489	doorAccess.openDoor.iccard.enable	Number	Enable RFID RFID/IC card swiping open door	0 : Disabled, 1 : Enabled

P15605	doorAccess.openDoor.icc ard.compatibilityMode.enable	Number	Enable RFID IC card compatibility mode (reads wider chip range)	0 : Disabled, 1 : Enabled
P15615	doorAccess.openDoor.idc ard.enable	Number	Enable ID Card swiping open door	0 : Disabled, 1 : Enabled
P15543	doorAccess.oneWayInterl ock.enable	Number	Enable One-Way Interlock door safety control mode	0 : Disabled, 1 : Enabled
P15981	doorAccess.doorLinkage. mode	Number	Door Linkage safety linkage mode	e.g. 0
P15982	doorAccess.doorLinkage.s afeRoom.mode	Number	Safe Room door linkage operation mode	e.g. 0
P15983	doorAccess.doorLinkage.s afeRoom.relay	Number	Safe Room door linkage relay assignment	e.g. 0
P16070	doorAccess.openDoor.hoo kAfterUnlock.enable	Number	Enable automatic call hang up after remote unlock	0 : Disabled, 1 : Enabled
P16071	doorAccess.openDoor.hoo kAfterUnlock.time	Number	Delay time before automatic call hang up after unlock	1 to 20 (seconds)

4.2.3 Doorbell Basic Settings

P-value	Alias / Config Path	Type	Description	Default / Range
P10462	doorAccess.doorbell.numb er1	String	Target SIP phone extension or IP target for Doorbell 1	Max 256 chars
P15556	doorAccess.doorbell.numb er2	String	Target SIP phone extension or IP target for Doorbell 2	Max 256 chars
P15558	doorAccess.doorbell.numb er3	String	Target SIP phone extension or IP target for Doorbell 3	Max 256 chars
P15560	doorAccess.doorbell.numb er4	String	Target SIP phone extension or IP target for Doorbell 4	Max 256 chars
P15587	doorAccess.doorbell.cloud Number1	String	Cloud Doorbell ring destination target 1	Max 256 chars
P15588	doorAccess.doorbell.cloud Number2	String	Cloud Doorbell ring destination target 2	Max 256 chars
P15589	doorAccess.doorbell.cloud Number3	String	Cloud Doorbell ring destination target 3	Max 256 chars
P15590	doorAccess.doorbell.cloud Number4	String	Cloud Doorbell ring destination target 4	Max 256 chars
P15418	doorAccess.doorbell.sche dule1	String	Doorbell Call 1 Time Schedule index constraint	e.g. "100" (always allow)
P15557	doorAccess.doorbell.sche dule2	String	Doorbell Call 2 Time Schedule index constraint	Max 16 chars
P15559	doorAccess.doorbell.sche dule3	String	Doorbell Call 3 Time Schedule index constraint	Max 16 chars
P15561	doorAccess.doorbell.sche dule4	String	Doorbell Call 4 Time Schedule index constraint	Max 16 chars
P10470	doorAccess.doorbell.acco unt	Number	SIP Account index used to dial doorbell button calls	0 to 4
P14827	doorAccess.doorbell.mode	Number	Doorbell Button trigger action mode	0 : Call doorbell number, 1 : Control doorbell relay, 2 : Both

P14582	doorAccess.doorbell.hang up.enable	Number	Automatically end doorbell call when door is unlocked	0 : Disabled, 1 : Enabled
P15434	doorAccess.doorbell.callMode	Number	Ring call mode for doorbell target targets	0 : Serial (sequential), 1 : Parallel
P15630	doorAccess.doorbell.callingTimeout	Number	Doorbell ring call timeout limit	10 to 300 (seconds, default 60)

5. Keep Door Open Settings

Configure the schedules and parameters for keeping doors open automatically or immediately using NVRAM P-values.

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: get
type	String	Yes	-	Fixed value: sch_open_door

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P15429>1</P15429> <P15430>5</P15430> <P15211>20251023000000</P15211>
<P15212>20260131235959</P15212> <P15213>door_sch,</P15213> <P15571>100</P15571> <P15506>0</P15506>
<P15455>2</P15455> <P15456>5</P15456> <P15457>20260526000000</P15457>
<P15458>20260826000000</P15458> <P15459>door_sch,</P15459> <P15572>105</P15572>
<P15507>0</P15507></Configuration>
```

5.1 Keep Open Door 1 Settings

P-value	Alias / Config Path	Type	Description	Default / Range
P15429	doorAccess.keepOpenDoor1.mode	Number	Keep Door 1 Open Mode	0 : Disable, 1 : Immediate Open, 2 : Schedule Open
P15430	doorAccess.keepOpenDoor1.holdTime	Number	Duration to Keep Door 1 Open	5 to 480 (minutes)
P15211	doorAccess.keepOpenDoor1.schedule.startTime	String	Keep Door 1 Open schedule start time	YYYYMMDDhhmmss
P15212	doorAccess.keepOpenDoor1.schedule.endTime	String	Keep Door 1 Open schedule expiration end time	YYYYMMDDhhmmss
P15571	doorAccess.keepOpenDoor1.schedule	Number	Keep Door 1 Open schedule profile ID	0 to 10, or 100 to 149
P15506	doorAccess.keepOpenDoor1.holiday	Number	Keep Door 1 Open holiday profile ID	0 to 10
P15213	doorAccess.keepOpenDoor1.customSchedule	String	Custom schedule string configuration	e.g. door_sch,
P15435	doorAccess.keepOpenDoor1.disable.emergencyPin	String	Emergency PIN to disable keep open door 1	Max 8 digits
P15585	doorAccess.keepOpenDoor1.enable.emergencyPin	String	Emergency PIN to re-enable keep open door 1	Max 8 digits

5.2 Keep Open Door 2 Settings

P-value	Alias / Config Path	Type	Description	Default / Range
P15455	doorAccess.keepOpenDoor2.mode	Number	Keep Door 2 Open Mode	0 : Disable, 1 : Immediate Open, 2 : Schedule Open
P15456	doorAccess.keepOpenDoor2.holdTime	Number	Duration to Keep Door 2 Open	5 to 480 (minutes)
P15457	doorAccess.keepOpenDoor2.schedule.startTime	String	Keep Door 2 Open schedule start time	YYYYMMDDhhmmss
P15458	doorAccess.keepOpenDoor2.schedule.endTime	String	Keep Door 2 Open schedule expiration end time	YYYYMMDDhhmmss
P15572	doorAccess.keepOpenDoor2.schedule	Number	Keep Door 2 Open schedule profile ID	0 to 10, or 100 to 149
P15507	doorAccess.keepOpenDoor2.holiday	Number	Keep Door 2 Open holiday profile ID (For second door)	0 to 10
P15459	doorAccess.keepOpenDoor2.customSchedule	String	Custom schedule string configuration (Door 2)	e.g. door_sch,
P15472	doorAccess.keepOpenDoor2.disable.emergencyPin	String	Emergency PIN to disable keep open door 2	Max 8 digits
P15586	doorAccess.keepOpenDoor2.enable.emergencyPin	String	Emergency PIN to re-enable keep open door 2	Max 8 digits

6. SIP Settings

GDS372X supports up to 3 SIP accounts. When retrieving configuration parameters using type=sip , route the queries using the account parameter.

6.1 GET SIPConfiguration

Endpoint: goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: get
type	String	Yes	-	Fixed value: sip
account	Int	No	1	SIP Account Index: 1, 2, or 3. If omitted, defaults to account 1.

Account P-value Range Mapping:

Account 1: P271 (SIP Account Enable), P47 (SIP Server 1 Address), P35 (SIP User ID), P40 (SIP Local Port), etc.

Account 2: P401 (SIP Account Enable), P402 (SIP Server 1 Address), P404 (SIP User ID), P413 (SIP Local Port), etc.

Account 3: P501 (SIP Account Enable), P502 (SIP Server 1 Address), P504 (SIP User ID), P513 (SIP Local Port), etc.

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P402>1</P402> <P413>5062</P413> <P481>*</P481></Configuration>
```

6.2 SET SIPConfiguration

Modify specific account configurations directly via NVRAM P-values.

Example Request:

```
GET https://<IP>/goform/config?cmd=set&P402=1
```

6.3 SIPAccounts P-value Reference Table

The following table lists the complete SIP configurations for the 3 active accounts on GDS372X:

Account 1	Account 2	Account 3	Values	Description
P2363	P2463	P2563	1: Yes, 0: No	Configure Audio Crypto Life Time. Default: No. (Alias: audio.cryptoLifeTime)
P26073	P26173	P26273	1: Yes, 0: No	Configure Audio FEC Enable. Default: Yes. (Alias: audio.fec.enable)
P50	P485	P585	1: Yes, 0: No	Configure Audio Silence Suppression. Default: No. (Alias: audio.silenceSuppression)
P2383	P2483	P2583	0: AES128 And 256Bit, 1: AES128 Bit, 2: AES256 Bit	Configure Audio SRTP Key Length. Default: AES128 And 256Bit. (Alias: audio.srtpKeyLength)
P183	P443	P543	0: Disabled, 1: Enabled But Not Forced, 2: Enabled And Forced, 3: Optional	Configure Audio SRTP Mode. Default: Disabled. (Alias: audio.srtpMode)
P291	P460	P560	1: Yes, 0: No	Configure Audio Symmetric RTP. Default: No. (Alias: audio.symmetricRTP)
P37	P486	P586	1-6	Configure Audio Voice Frame Per Tx. Default: 2. (Alias: audio.voiceFramePerTX)
P90	P425	P525	0: No, 1: Yes, 2: EnableIntercom/Paging	Configure Call Auto Answer. Default: Yes. (Alias: call.autoAnswer)
P182	P442	P542	0: All, 1: Incoming And Outgoing, 2: Disable	Configure Call Call Log. Default: All. (Alias: call.callLog)
P129	P446	P546	1: Yes, 0: No	Configure Call Reject Anonymous Call. Default: No. (Alias: call.rejectAnonymousCall)
P65	P421	P521	1: Yes, 0: No	Configure Call Send Anonymous. Default: No. (Alias: call.sendAnonymous)
P60077	P60177	P60277	0-65535	Configure Call Timeout. Default: 0. (Alias: call.timeout)

P95025	P95125	P95225	10-300	Configure Calling Timeout. Default: 90. (Alias: calling.timeout)
P2362	P2462	P2562	0: Baseline, 1: Main, 2: High, 3: BPMPHP	Configure Codec H.264 Profile Type. Default: BPMPHP. (Alias: codec.H264ProfileType)
P2360	P2460	P2560	0: Standard, 1: MediaLevel, 2: SessionLevel, 3: None	Configure Codec SDP Bandwidth Attr. Default: MediaLevel. (Alias: codec.SDPBandwidthAttr)
P57	P451	P551	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 1. Default: G.722. (Alias: codec.choice.1)

6.3 SIP Accounts P-value Reference Table

The following table lists the complete SIP configurations for the 3 active accounts on GDS372X:

Account 1	Account 2	Account 3	Values	Description
P2363	P2463	P2563	1: Yes, 0: No	Configure Audio FEC Enable. Default: Yes. (Alias: audio.fec.enable)
P26073	P26173	P26273	1: Yes, 0: No	Configure Audio SRTP Key Length. Default: AES128 and 256 Bit. (Alias: audio.srtpKeyLength)
P50	P485	P585	1: Yes, 0: No	Configure Audio Silence Suppression. Default: No. (Alias: audio.silenceSuppression)
P2383	P2483	P2583	0: AES128 And 256Bit, 1: AES128 Bit, 2: AES256 Bit	Configure Audio SRTP Key Length. Default: AES128 And 256Bit. (Alias: audio.srtpKeyLength)
P183	P443	P543	0: Disabled, 1: Enabled But Not Forced, 2: Enabled And Forced, 3: Optional	Configure Audio SRTP Mode. Default: Disabled. (Alias: audio.srtpMode)
P291	P460	P560	1: Yes, 0: No	Configure Audio Symmetric RTP. Default: No. (Alias: audio.symmetricRTP)
P37	P486	P586	1-6	Configure Audio Voice Frame Per Tx. Default: 2. (Alias: audio.voiceFramePerTX)
P90	P425	P525	0: No, 1: Yes, 2: EnableIntercom/Paging	Configure Call Auto Answer. Default: Yes. (Alias: call.autoAnswer)
P182	P442	P542	0: All, 1: Incoming And Outgoing, 2: Disable	Configure Call Call Log. Default: All. (Alias: call.callLog)
P129	P446	P546	1: Yes, 0: No	Configure Call Reject Anonymous Call. Default: No. (Alias: call.rejectAnonymousCall)

P65	P421	P521	1: Yes, 0: No	Configure Call Send Anonymous. Default: No. (Alias: call.sendAnonymous)
P60077	P60177	P60277	0-65535	Configure Call Timeout. Default: 0. (Alias: call.timeout)
P95025	P95125	P95225	10-300	Configure Calling Timeout. Default: 90. (Alias: calling.timeout)
P2362	P2462	P2562	0: Baseline, 1: Main, 2: High, 3: BPMPHP	Configure Codec H.264 Profile Type. Default: BPMPHP. (Alias: codec.H264ProfileType)
P2360	P2460	P2560	0: Standard, 1: MediaLevel, 2: SessionLevel, 3: None	Configure Codec SDP Bandwidth Attr. Default: MediaLevel. (Alias: codec.SDPBandwidthAttr)
P57	P451	P551	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 1. Default: G.722. (Alias: codec.choice.1)
P58	P452	P552	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 2. Default: PCMU. (Alias: codec.choice.2)
P59	P453	P553	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 3. Default: PCMA. (Alias: codec.choice.3)
P60	P454	P554	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 4. Default: G726-32. (Alias: codec.choice.4)
P61	P455	P555	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 5. Default: G.729A/B. (Alias: codec.choice.5)
P62	P456	P556	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 6. Default: G.729A/B. (Alias: codec.choice.6)
P46	P457	P557	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 7. Default: G.729A/B. (Alias: codec.choice.7)
P98	P458	P558	8: PCMA, 0: PCMU, 9: G.722, 2: G726-32, 18: G.729A/B	Configure Codec Choice 8. Default: G.729A/B. (Alias: codec.choice.8)
P2323	P2423	P2523	0: ITU, 1: IETF	Configure Codec G723 32 Packing Mode. Default: ITU. (Alias: codec.g723.32.packingMode)
P26045	P26145	P26245	1: Yes, 0: No	Configure Codec H.264 CBP Enable. Default: Yes. (Alias: codec.h264.CBP.enable)

Account 1	Account 2	Account 3	Values	Description
P267	P433	P533	1: UAC, 2: UAS	Configure SIP Session Timer Refresher UAS Specify. Default: UAC. (Alias: sip.sessionTimer.refresher.uasSpecify)

P263	P429	P529	1: Yes, 0: No	Configure SIP Session Timer Request Timer Callee. Default: No. (Alias: sip.sessionTimer.requestTimer.callee)
P262	P428	P528	1: Yes, 0: No	Configure SIP Session Timer Request Timer Caller. Default: No. (Alias: sip.sessionTimer.requestTimer.caller)
P26051	P26151	P26251	1-64800	Configure SIP Subscribe Expiration. Default: 60. (Alias: sip.subscribe.expiration)
P2319	P2419	P2519	1: Yes, 0: No	Configure SIP Subscribe For Registration. Default: No. (Alias: sip.subscribe.forRegistration)
P3	P407	P507	String (max 256 chars)	Configure SIP Subscriber Name. (Alias: sip.subscriber.name)
P34	P406	P506	String (max 512 chars)	Configure SIP Subscriber Password. (Alias: sip.subscriber.password)
P36	P405	P505	String (max 512 chars)	Configure SIP Subscriber User ID. (Alias: sip.subscriber.userid)
P288	P489	P589	1: Yes, 0: No	Configure SIP Support Instance Id. Default: Yes. (Alias: sip.supportInstanceId)
P63	P409	P509	0: Disabled, 1: UserIsPhone, 2: Enabled	Configure SIP Tel URI. Default: Disabled. (Alias: sip.telUri)
P209	P440	P540	50: 0.5sec, 100: 1sec, 200: 2sec	Configure SIP Timer T1. Default: 0.5sec. (Alias: sip.timer.t1)
P250	P441	P541	200: 2sec, 400: 4sec, 800: 8sec	Configure SIP Timer T2. Default: 4sec. (Alias: sip.timer.t2)
P2387	P2487	P2587	32-64	Configure SIP Timerd Interval. Default: 32. (Alias: sip.timerd.interval)
P130	P448	P548	0: UDP, 1: TCP, 2: Tls Or Tcp	Configure SIP Transport. Default: UDP. (Alias: sip.transport)
P81	P411	P511	0: No, 1: Yes, 2: Instance	Configure SIP Unregister On Reboot. Default: Instance. (Alias: sip.unregisterOnReboot)
P2329	P2429	P2529	0: sip, 1: sips	Configure SIP URI Scheme When Using TLS. Default: sips. (Alias: sip.uriSchemeWhenUsingTls)
P2331	P2431	P2531	1: Yes, 0: No	Configure SIP Use Actual Ephemeral Port In Contact With TCP TLS. Default: No. (Alias: sip.useActualEphemeralPortInContactWithTcpTls)

P35	P404	P504	String (max 512 chars)	Configure SIP User ID. (Alias: sip.userid)
P2315	P2415	P2515	512: 512Kbps, 1024: 1024Kbps, 1280: 1280Kbps, 1536: 1536Kbps, 2048: 2048Kbps, 768: 768Kbps, 640: 640Kbps	Configure Video Bit Rate. Default: 2048Kbps. (Alias: video.bitRate)
P95031	P95131	P95231	0-3	Configure Video Capability. Default: 1. (Alias: video.capability)
P2393	P2493	P2593	1: Yes, 0: No	Configure Video FEC Enable. Default: Yes. (Alias: video.fec.enable)
P2307	P2407	P2507	10: 1080P, 9: 720P, 4: 4CIF, 1: VGA	Configure Video H.264 Imagesize. Default: 1080P. (Alias: video.h264.imagesize)
P295	P464	P564	99: H264	Configure Video Preferred Video Decoder Choice 1. Default: H264. (Alias: video.preferredVideoDecoder.choice.1)
P296	P465	P565	99: H264	Configure Video Preferred Video Decoder Choice 2. Default: H264. (Alias: video.preferredVideoDecoder.choice.2)

7. HTTPS IP DIAL

Make or cancel SIP voice calls via HTTP API. Authentication is required.

Refer to the GDS37xx HTTP API - HTTP SIP DIAL upstream specification for the original interface definition.

Endpoint: /goform/config

Method: GET

Authentication: Session cookie sid=<session_id> required

7.1 Initiate Call (cmd=call&call_type=1)

Trigger an outgoing SIP call to the specified number or IP address.

Request

```
GET /goform/config?cmd=call&call_type=1&call_num=<SIP_NUMBER> HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Parameters

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: call
call_type	Number	Yes	-	Fixed value: 1 (Initiate call)

call_num	String	Yes	-	SIP extension number, E.164 number, or IP address (e.g., 1001, +861380001234, 192.168.1.100)
----------	--------	-----	---	--

Response (XML)

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

7.2 Cancel/ Hang-up Call (cmd=call&call_type=0)

Hang up the current outgoing call.

Request

```
GET /goform/config?cmd=call&call_type=0 HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Parameters

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: call
call_type	Number	Yes	-	Fixed value: 0 (Hang up / cancel)

Response (XML)

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

7.3 Compatibility Dial (cmd=set&phone_dial)

Legacy interface that triggers SIP dialing by setting the phone_dial P-value string. Equivalent in effect to cmd=call&call_type=1 but uses the cmd=set path.

Prefer cmd=call&call_type=1&call_num=<number> for new integrations. This phone_dial form is retained for backward compatibility with older GDS37xx firmware.

Request

```
GET /goform/config?cmd=set&phone_dial=<SIP_NUMBER> HTTP/1.1Cookie: sid=<session_id>Accept:
application/xml
```

Parameters

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: set
phone_dial	String	Yes	-	SIP extension or number to dial

Response (XML)

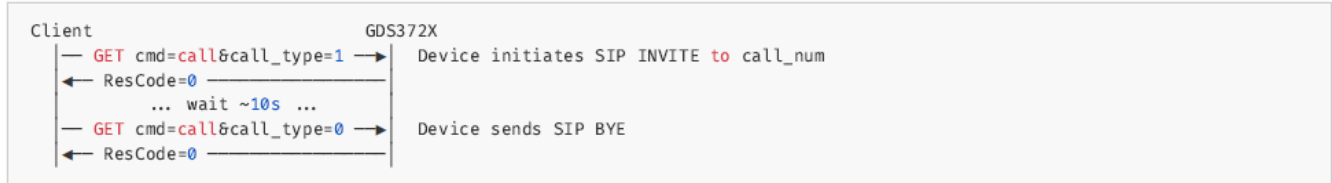
```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

7.4 Response Codes

ResCode	RetMsg	Meaning
0	OK	Command accepted; call is being initiated or hung up

1	Auth failed	Session has expired; re-authenticate and retry
2	Invalid Param	Missing or invalid call_num / call_type
20	Unknown	Command not supported by this hardware/firmware version

7.5 Call Flow Example



8. Video Settings

Retrieve or update video stream settings for Stream 1 (Primary) and Stream 2 (Secondary).

8.1 Query Video Settings

Query the video configuration block from the device. This retrieves all camera and encoding parameters.

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=video

8.2 Video Settings

The video configuration includes the video encoding and stream parameters associated with the device.

Video P-value Reference

P-value	Alias Name	Type	Options / Range	Default	Description
P2315	video.bitRate	Number	512: 512Kbps, 1024: 1024Kbps, 1280: 1280Kbps, 1536: 1536Kbps, 2048: 2048Kbps, 768: 768Kbps, 640: 640Kbps	2048Kbps	Configure Video Bit Rate.
P95031	video.capability	Number	0-3	1	Configure Video Capability.
P2393	video.fec.enable	Number	1: Yes, 0: No	1	Configure Video FEC Enable.
P2307	video.h264.imagesize	Number	10: 1080P, 9: 720P, 4: 4CIF, 1: VGA	10	Configure Video H.264 Imagesize.
P295	video.preferredVideoDecoder.choice.1	Number	99: H264	99	Configure Video Preferred Video Decoder Choice 1.
P296	video.preferredVideoDecoder.choice.2	Number	99: H264	99	Configure Video Preferred Video Decoder Choice 2.

9. Privacy Masks

9.1 Query Privacy Mask Configuration (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=privacy

Request Example:

```
GET /goform/config?cmd=get&type=privacy HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P14225>0@0,0,0,0;0@0,0,0,0;0@0,0,0,0;0@0,0,0,0</P14225></Configuration>
```

9.2 Set Privacy Mask Configuration (SET)

Endpoint: /goform/config

Method: GET (query string parameters)

Query Parameters: cmd=set&P14225=<value>

Request Example (Enable Zone 1 with Coordinates):

```
GET /goform/config?cmd=set&P14225=1@100,200,300,400;0@0,0,0,0;0@0,0,0,0;0@0,0,0,0 HTTP/1.1Cookie:
sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

9.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P14225	video.privacyMask	String	Max 128 chars	0@0,0,0,0;0@0,0,0,0;0@0,0,0,0;0@0,0,0,0	Privacy mask zones layout. Formatted as active@x,y,w,h; . for up to 4 regions.

10. Alarm Configurations

Configure SIP phone numbers, actions, and event mappings for system alarms.

10.1 Alarm Phone List

Configure SIP phone numbers that will be called when an alarm event is triggered. The GDS372X supports up to 4 SIP alarm phone groups (each with a configurable SIP account and a multi-line phone number list), plus one cloud notification list.

This section is compatible with the GDS37xx HTTP API - Alarm Phone List specification. The GDS372X extends the original single-group (P10459 / P10471) definition with 3 additional groups (P15575-P15580) and a cloud list (P15608).

10.1.1 Query Alarm Phone List(GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=alarm_phone

Request Example:

```
GET /goform/config?cmd=get&type=alarm_phone HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P10459>12345&#10;45645</P10459> <P10471>0</P10471> <P15575>1</P15575>
<P15576>12134&#10;43882</P15576> <P15577>3</P15577> <P15578>44433</P15578> <P15579>2</P15579>
<P15580>121232&#10;454546</P15580> <P15608></P15608></Configuration>
```

Phone number lists are newline-separated (\n /
 in XML). Each P-value for a phoneList may contain multiple phone numbers, one per line. Max total length: 256 characters.

10.1.2 Set Alarm Phone List(SET)

Endpoint: /goform/config

Method: GET (query string parameters)

Query Parameters: cmd=set&P<pvalue>=<value>& .

Request Example (Set Group 1):

```
GET /goform/config?cmd=set&P10459=1001%0A1002&P10471=0 HTTP/1.1Cookie: sid=<session_id>
```

10.1.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P10459	alarm.notify.sipAlarm.phoneList1	String	Max 256 chars, newline-separated	""	Group 1: SIP phone numbers to dial on alarm. One number per line.
P10471	alarm.notify.sipAlarm.account1	Number	0 : Auto, 1 : Account 1, 2 : Account 2, 3 : Account 3	0	Group 1: SIP account used to dial the phone list.
P15575	alarm.notify.sipAlarm.account2	Number	0 : Auto, 1 : Account 1, 2 : Account 2, 3 : Account 3	0	Group 2: SIP account used to dial the phone list.
P15576	alarm.notify.sipAlarm.phoneList2	String	Max 256 chars, newline-separated	""	Group 2: SIP phone numbers to dial on alarm.
P15577	alarm.notify.sipAlarm.account3	Number	0 : Auto, 1 : Account 1, 2 : Account 2, 3 : Account 3	0	Group 3: SIP account used to dial the phone list.
P15578	alarm.notify.sipAlarm.phoneList3	String	Max 256 chars, newline-separated	""	Group 3: SIP phone numbers to dial on alarm.
P15579	alarm.notify.sipAlarm.account4	Number	0 : Auto, 1 : Account 1, 2 : Account 2, 3 : Account 3	0	Group 4: SIP account used to dial the phone list.
P15580	alarm.notify.sipAlarm.phoneList4	String	Max 256 chars, newline-separated	""	Group 4: SIP phone numbers to dial on alarm.

P15608	alarm.notify.sipAlarm. cloudList1	String	Max 256 chars	""	Cloud notification target list (e.g., UCM extension or cloud platform number).
--------	--------------------------------------	--------	---------------	----	---

10.2 Alarm Action Configuration

Configure actions to be performed when an alarm event is triggered. The GDS372X supports up to 10 Alarm Action Profiles. Each profile has 12 settings including profile name and enable flags for various actions (such as sending sound, dialing a SIP call, triggering digital output, email notification, uploading JPEG to FTP/Cloud/Local, or calling via app, cloud video call, and Home Assistant).

10.2.1 Query Alarm Action Configuration (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=alarm_profile

Request Example:

```
GET /goform/config?cmd=get&type=alarm_profile HTTP/1.1Cookie: sid=<session_id>Accept:
application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

10.2.4 Alarm Action Profile P-value Mapping

Using the offsets defined above, the P-values for each profile are mapped as follows:

Profile Number	Base P-value	P-value Range	Alias Prefix
Profile 1	15760	15760 - 15771	alarm.action.profile1
Profile 2	15780	15780 - 15791	alarm.action.profile2
Profile 3	15800	15800 - 15811	alarm.action.profile3
Profile 4	15820	15820 - 15831	alarm.action.profile4
Profile 5	15840	15840 - 15851	alarm.action.profile5
Profile 6	15860	15860 - 15871	alarm.action.profile6
Profile 7	15880	15880 - 15891	alarm.action.profile7
Profile 8	15900	15900 - 15911	alarm.action.profile8
Profile 9	15920	15920 - 15931	alarm.action.profile9
Profile 10	15940	15940 - 15951	alarm.action.profile10

10.3 Alarm Event Configuration

Configure alarm events, digital input settings, silent alarms, and custom audio notifications for different trigger conditions. The GDS372X supports configuring various event types including Invasion Detection, High Temperature, Tamper, Unauthorized Card, Remote Open Door Password Error, SD Card exceptions, Safe Room events, and Relay Open Timeout.

10.3.1 Query Alarm Event Configuration (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=event

Request Example:

```
GET /goform/config?cmd=get&type=event HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Alarm Digital Input Parameters

Parameter	DI 1	DI 2	DI 3	Options / Range
alarm.digitalInputN.mode	P14320	P14325	P14328	0 : Disable, 1 : Open, 2 : Close, 3 : Normal Open, 4 : Normal Close
alarm.digitalInputN.schedule	P14321	P14326	P14331	Active schedule index
alarm.digitalInputN.profile	P14322	P14327	P14332	Trigger action profile index
alarm.digitalInputN.status	P15431	P15432	P14330	Active status (0: Normal, 1: Triggered)
alarm.digitalInputN.openDoorCtrl	P15451	P15452	P14329	Open door action control mode
alarm.digitalInputN.customSound.enable	P15664	P15669	P15674	0 : Disable, 1 : Enable
alarm.digitalInputN.customSound.file	P15665	P15670	P15675	Audio notification file index
alarm.digitalInputN.customSound.playMode	P15666	P15671	P15676	Playback mode
alarm.digitalInputN.customSound.playDuration	P15667	P15672	P15677	Playback duration (in seconds)
alarm.digitalInputN.customSound.playLoopCnt	P15668	P15673	P15678	Playback loop count

11. Creation QR Code Management

The GDS372X supports managing temporary visitors and generating associated QR Codes for door opening access.

11.1 ADD Visitor (Create QR Code)

Add new visitor information. Supports configuring visitor QR Code door opening limits, validity periods, and repetition cycles.

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: add
visitor_name	String	Yes	-	Visitor name, max 64 characters, cannot be empty.
visitor_uid	String	Yes	-	Unique visitor identifier (alphanumeric), cannot be empty.
door_ctrl	String	Yes	-	Allowed door relays, comma-separated. 0 : relay1 1 : relay2

visitor_creator_id	String	Yes	-	creator's username.
visitor_valid_begin_time	String	Yes	-	Validity start time (UTC), format: YYYYMMDDHHMMSS .
visitor_valid_end_time	String	Yes	-	Validity end time (UTC), format: YYYYMMDDHHMMSS .
visitor_open_door_cnt	Int	Yes	-	Allowed door opening counts, -1 for unlimited.
visitor_cycle_time	String	Yes	-	Repetition cycle, -1 for no repetition. 0 : Daily 1-7 : Selected weekdays (Monday to Sunday).
visitor_period_begin_time	String	No	-	Daily active window start time (HHMMSS). Required if cycle != -1.
visitor_period_end_time	String	No	-	Daily active window end time (HHMMSS). Required if cycle != -1.

Request Example:

Specify Validity Period:

```
https://192.168.1.162/goform/config?cmd=add&door_ctrl=0,1&visitor_creator_id=258974&visitor_name=QR1&visitor_uid=216416&visitor_valid_begin_time=20260608024152&visitor_valid_end_time=20260608025652&visitor_open_door_cnt=5&visitor_cycle_time=-1
```

Response (XML):

Success Response:

```
<?xml version="1.0" encoding="utf-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>  
<qrcode>Base64EncodedPNGData</qrcode> - Base64-encoded PNG image data of the dynamic QR Code  
--></Configuration>
```

11.2 GET Visitor List

Query visitor records page-by-page from the device.

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: get
type	String	Yes	-	Fixed value: visitor_list
page	Int	Yes	-	Page index
page_size	Int	Yes	-	Number of entries per page

Response XML Elements:

Element	Type	Required	Default	Description
open_door_permission	String	Yes	-	Door open permission: 0 : None 1 : relay1 2 : relay2 3 : relay1 and relay2

total_open_door_times	String	Yes	-	Total door opening limit (-1 for unlimited).
enable_open_door_times	String	Yes	-	Remaining door opening count (-1 for unlimited).
SOD	String	Yes	-	Validity start time (YYYYMMDDHHMMSS).
EOD	String	Yes	-	Validity end time (YYYYMMDDHHMMSS).
visit_begin_time_period	String	Yes	-	Daily active start time (HHMMSS).
visit_end_time_period	String	Yes	-	Daily active end time (HHMMSS).
visitor_state	String	Yes	-	Visitor status: 1 : Active 0 : Expired/Inactive

Request Example:

```
https: /192.168.1.162/goform/config?cmd=get&type=visitor_list&page=1&page_size=10
```

Response (XML):

Success Response:

```
<?xml version="1.0" encoding="utf-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<total>17</total> - Total record count --> <item> <visitor_id>216416</visitor_id>
<visitor_name>QR1</visitor_name> <visitor_creator_name>Someone</visitor_creator_name>
<open_door_permission>3</open_door_permission> <total_open_door_times>-1</total_open_door_times>
<enable_open_door_times>-1</enable_open_door_times> <visit_begin_time_period>
<visit_end_time_period> <SOD> <EOD>20260705000000</EOD> <visitor_state>1</visitor_state>
</item></Configuration>
```

11.3 DELETE Visitor

Delete visitor information (supports single or batch deletion).

Endpoint: /goform/config

Method: GET

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: del
visitorIds	String	Yes	-	Visitor UID(s) to delete; supports comma-separated list for batch operation (e.g. 123456,654321).

Request Example:

Delete Single Visitor:

```
https: /192.168.1.162/goform/config?cmd=del&visitorIds=123456
```

Batch Delete Visitors:

```
https: /192.168.1.162/goform/config?cmd=del&visitorIds=123456,654321,789012
```

Response (XML):

Success Response:

```
<?xml version="1.0" encoding="utf-8"?><Configuration><ResCode>0 /ResCode><RetMsg>OK
/RetMsg></Configuration>
```

12. MJPEG Video & JPEG Snapshot Integration

For integration with third-party systems (such as NVRs, Home Assistant, or custom video management software), the GDS372X provides HTTP endpoints to access live MJPEG video streams and retrieve static JPEG snapshots.

Accessing media endpoints using Basic Authentication credentials embedded in the URL query string (e.g., `admin:password@<ip_address>`) transmits credentials in cleartext over HTTP. It is highly recommended to use HTTPS (`https://`) to secure credentials during transmission.

12.1 HTTP Endpoints

All media requests use the GET method. The following tables describe the endpoints for video streams and static images:

MJPEG Video Streams

Endpoint	Target Stream	Description
<code>http(s): /<ip_address>/jpeg/stream</code>	Stream 1 (Primary)	High-resolution primary MJPEG video stream.
<code>http(s): /<ip_address>/jpeg/stream=0</code>	Stream 1 (Primary)	Alias for the primary MJPEG video stream.
<code>http(s): /<ip_address>/jpeg/stream=1</code>	Stream 2 (Secondary)	Sub-stream MJPEG video stream (typically lower resolution/bitrate).

JPEG Snapshots

Endpoint	Description
<code>http(s): /<ip_address>/snapshot/view0.jpg</code>	Captures and returns a single static JPEG snapshot from the camera.

12.2 Request Examples

To authenticate, you can pass credentials using standard HTTP Basic Authentication (e.g., in the request headers) or by embedding credentials directly in the URL:

Example 1: Accessing Primary Video Stream (Basic Auth in URL)

```
https://admin:admin123@192.168.1.162/jpeg/stream
```

Example 2: Accessing Camera Snapshot(Basic Auth in URL)

```
https://admin:admin123@192.168.1.162/snapshot/view0.jpg
```

13. Card Group & Management Logs

13.1 ADD Card Group

Endpoint: `/goform/config`

Query Parameters:

Parameter	Type	Required	Default	Description
<code>cmd</code>	String	Yes	-	Fixed value: add
<code>groupname</code>	String	Yes	-	Name of the card group
<code>schid</code>	String	Yes	-	Active schedule identifier (e.g., <code>door_sch</code>)

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<groupid>2</groupid></Configuration>
```

13.2 GET Card Groups

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: get
type	String	Yes	-	Fixed value: group
page	Int	Yes	-	Page index
page_size	Int	Yes	-	Number of entries per page

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<total>2</total> <group> <groupid>1</groupid> <groupname>Always Allow Access to All
Doors</groupname> <schid>1</schid> </group></Configuration>
```

13.3 DEL Card Group

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: del
groupid	Int	Yes	-	Unique Card Group ID to delete

13.4 GET Management Logs

Retrieve door access and audit log history.

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: get
type	String	Yes	-	Fixed value: mgr_log
id_begin	Int	Yes	-	Start index for log query

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<log> <id>1</id> <time>20250925165051</time> <type>1101</type> </log></Configuration>
```

14. On-Screen Display (OSD) Configurations

Configure display settings such as OSD date format, time format, OSD custom text, OSD text position, and enabling/disabling OSD display components.

14.1 Query OSD Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=osd

Request Example:

```
GET /goform/config?cmd=get&type=osd HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P10044>1</P10044> <P10045>1</P10045> <P10001>1</P10001> <P10007>0</P10007>
<P10040>OfficeOSD</P10040> <P10041>0</P10041> <P10046>2</P10046></Configuration>
```

14.2 Set OSD Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P<P-value>=<value>

Request Example:

```
GET /goform/config?cmd=set&P10040=OfficeOSD HTTP/1.1
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

14.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P10044	osd.displayTime.enable	Number	0 : Disable, 1 : Enable	1	Enable or disable displaying time on screen.
P10045	osd.displayText.enable	Number	0 : Disable, 1 : Enable	1	Enable or disable displaying custom text on screen.
P10001	osd.dataFormat	Number	0 : YYYY-MM-DD, 1 : MM-DD-YYYY, 2 : DD-MM-YYYY	1	Date format displayed in OSD.
P10007	osd.timeFormat	Number	0 : 24-Hour, 1 : 12-Hour	0	Time format displayed in OSD.
P10040	osd.text	String	Max length: 25 characters	""	Custom text to display in OSD.
P10041	osd.timePosition	Number	0 : Top Left, 1 : Bottom Left, 2 : Top Right, 3 : Bottom Right	0	Position of time on screen.
P10046	osd.textPosition	Number	0 : Top Left, 1 : Bottom Left, 2 : Top Right, 3 : Bottom Right	2	Position of custom text on screen.

15. CMOS Configurations

Configure CMOS camera modes (Wide Dynamic Range - WDR), power frequency filter, and WDR schedules.

15.1 Query CMOS Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=cmos

Request Example:

```
GET /goform/config?cmd=get&type=cmos HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>0K</RetMsg>
<P10572>1</P10572> <P12314>1</P12314> <P15707>0</P15707></Configuration>
```

15.2 Set CMOS Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P<P-value>=<value>

Request Example:

```
GET /goform/config?cmd=set&P12314=1 HTTP/1.1
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>0K</RetMsg></Configuration>
```

15.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P10572	cmos.mode	Number	1 : Disabled, 3 : WDR (Wide Dynamic Range)	1	CMOS mode. Enables Wide Dynamic Range (WDR) to optimize contrast.
P12314	cmos.powerFrequency	Number	0 : 50Hz, 1 : 60Hz	1	Power frequency selection to prevent flicker from lighting.
P15707	cmos.wdr.schedule	Number	0 (Always Off), 10 (Always On), 100 - 149 (Active Schedule Index)	0	CMOS WDR Schedule configuration.

16. Audio Configurations

Configure device audio settings such as volume levels, doorbell sound options, ringtones for door unlock operations, keypress feedback, and IP address announcement schedules.

16.1 Query Audio Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=audio

Request Example:

```
GET /goform/config?cmd=get&type=audio HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P14340>0</P14340> <P15518>8</P15518> <P15519>15</P15519> <P15523>60</P15523> <P15524>1</P15524>
<P15537>113</P15537> <P15538>112</P15538> <P15539>114</P15539> <P15622>6</P15622>
<P15663>8</P15663> <P22317>1</P22317> <P22332>8</P22332> <P43025>8</P43025></Configuration>
```

16.2 Set Audio Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P<P-value>=<value>

Request Example:

```
GET /goform/config?cmd=set&P15622=6 HTTP/1.1
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

16.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P14340	audio.keyTone.mode	Number	0 : Default, 1 : DTMF, 2 : Mute	0	Key Tone operating mode.
P15518	audio.volume.openDoor	Number	0 - 15	8	Volume level when playing door opening tone.
P15519	audio.volume.tamper	Number	0 - 15	15	Volume level for physical tamper protection alarm speaker output.
P15523	ipAnnouncement.startTime	Number	60 - 300 (seconds)	60	Delay before the device announces its IP address.
P15524	ipAnnouncement.loopCount	Number	1 - 3	1	Number of times the device announces its IP address.
P15537	audio.ringtone.internalOpenDoor	Number	0 - 2147483647 (sound file index)	113	Sound file selection for internal open door ringtone.
P15538	audio.ringtone.externalOpenDoor	Number	0 - 2147483647 (sound file index)	112	Sound file selection for external open door ringtone.
P15539	audio.ringtone.openDoorFailed	Number	0 - 2147483647 (sound file index)	114	Sound file selection for door opening failed tone.
P15622	audio.ringtone.doorbell	Number	0 - 2147483647 (sound file index)	6	Sound file selection for doorbell ringtone.
P15663	audio.volume.doorbell	Number	0 - 15	8	Speaker volume for doorbell feedback tone.
P22317	audio.volume.call	Number	1 - 8	8	Volume level during active SIP audio calls.

P22332	audio.volume.alarm	Number	0 - 15	8	Volume level for generic system alarms.
P43025	audio.volume.media	Number	0 - 15	8	Volume level for playing local media files/prompts.

17. System Information

Retrieve general device system information, model name, software versions (firmware, bootloader, recovery), active timezone rules, and security levels. All parameters in this configuration block are read-only.

17.1 Query System Info Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=sysinfo

Request Example:

```
GET /goform/config?cmd=get&type=sysinfo HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<Pphone_model>GDS3726</Pphone_model> <P1397>9650002211B</P1397> <P69>1.0.3.0</P69>
<P70>1.0.3.1</P70> <P45>1.0.3.4</P45> <P7030></P7030> <P7034>1.0.3.4</P7034> <P7033>none</P7033>
<P7038>1.0.3.1</P7038> <PautoTimezone>TZY-8</PautoTimezone> <PTZ>TZY-8</PTZ>
<P:security_ver>GS010.001.001</P:security_ver></Configuration>
```

17.2 Field Reference Table

All system info parameters are Read-Only.

P-value / Key	Type	Description	Example / Range
Pphone_model	String	Device hardware model name.	GDS3726 / GDS3725
P1397	String	Device part number or hardware revision identifier.	9650002211B
P69	String	Bootloader version.	1.0.3.0
P70	String	Core system kernel version.	1.0.3.1
P45	String	Main application firmware version.	1.0.3.4
P7030	String	Active resource profile version.	""
P7034	String	Active software bundle release version.	1.0.3.4
P7033	String	Active system recovery tool version.	none
P7038	String	Active root filesystem bundle version.	1.0.3.1
PautoTimezone	String	Timezone rule detected automatically (e.g. from DHCP option 2).	TZY-8
PTZ	String	Configured active system timezone descriptor.	TZY-8
P:security_ver	String	Internal device security and vulnerability policy version.	GS010.001.001

18. Network Settings & Status

Retrieve and configure Ethernet settings, VLAN configurations, PPPoE credentials, IPv6 configurations, 802.1X network authentication, LLDP and CDP parameters, QoS DSCP priority values, and HTTP/SIP user-agent string overrides. This section also supports query-only real-time network link status values.

18.1 Query Network Settings &Status (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=net

Request Example:

```
GET /goform/config?cmd=get&type=net HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg> ...
<P:netstat.ethernet.eth0.ipv4.gateway></P:netstat.ethernet.eth0.ipv4.gateway>
<P:netstat.ethernet.eth0.ipv4.nat.type>None</P:netstat.ethernet.eth0.ipv4.nat.type>
<P:netstat.ethernet.eth0.ipv6.mode>Auto</P:netstat.ethernet.eth0.ipv6.mode>
<P:netstat.ethernet.eth0.ipv6.duid>000100012bc4d4b04f3668142034</P:netstat.ethernet.eth0.ipv6.duid>
<P:netstat.ethernet.eth0.ipv6.addr.global>2001:db8 :100</P:netstat.ethernet.eth0.ipv6.addr.global>
<P:netstat.ethernet.eth0.ipv6.addr.link>fe80
:20b:82ff:fe11:2233</P:netstat.ethernet.eth0.ipv6.addr.link>
<P:netstat.ethernet.eth0.ipv6.gateway>fe80 :1</P:netstat.ethernet.eth0.ipv6.gateway>
<P:netstat.ethernet.eth0.ipv6.nat.type>None</P:netstat.ethernet.eth0.ipv6.nat.type>
<P:netstat.ethernet.eth0.vlan.id>0</P:netstat.ethernet.eth0.vlan.id>
<P:netstat.ethernet.eth0.vlan.type>0</P:netstat.ethernet.eth0.vlan.type>
<P:netstat.dns.lists>192.168.1.1,8.8.8.8</P:netstat.dns.lists> <P:lldp_active>1</P:lldp_active>
<P:lldp_vlan_id>0</P:lldp_vlan_id> <P:lldp_qos_priority>0</P:lldp_qos_priority> <P1415>2</P1415>
<P8>0</P8> <P8300>0</P8300> <P146>gds3726</P146> <P148>Grandstream GDS3726</P148> <P9>192</P9>
<P10>168</P10> <P11>1</P11> <P12>100</P12> <P13>255</P13> <P14>255</P14> <P15>255</P15>
<P16>0</P16> <P1684>1</P1684> <P22122>60</P22122> - Other settings follow in same format
--></Configuration>
```

18.2 Set Network Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P1684=<0|1>&P22122=<seconds> .

Request Example:

```
GET /goform/config?cmd=set&P1684=1&P22122=60 HTTP/1.1Cookie: sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

18.3 Field Reference Table

LLDP Real-Time Status Parameters (Read-Only)

P-value / Key	Type	Description
:lldp_active	String	Active LLDP status flag (0 or 1).
:lldp_vlan_id	Number	Dynamically negotiated LLDP VLAN ID.

:lldp_qos_priority	Number	Dynamically negotiated LLDP priority index.
--------------------	--------	---

Real-Time Ethernet & Link Status Parameters (Read-Only)

P-value / Key	Type	Description	Example / Range
P211	String	Ethernet Port / WAN mode.	Disabled / Enabled
P:netstat.lan.connected	Boolean	LAN connection status.	0 (Disconnected), 1 (Connected)
P:netstat.lan.speed	String	LAN link speed.	0M , 10M , 100M , 1000M
P:netstat.lan.duplex	String	LAN duplex mode.	Half , Full
P:netstat.pc.connected	Boolean	PC port connection status.	0 (Disconnected), 1 (Connected)
P:netstat.pc.speed	String	PC port link speed.	0M , 10M , 100M
P:netstat.pc.duplex	String	PC port duplex mode.	Half , Full
P:netstat.ethernet.eth0.mac	String	MAC address of the device interface.	00:0b:82:11:22:33
P:netstat.ethernet.eth0.ipv4.mode	String	IPv4 address allocation mode.	DHCP , Static , PPPoE
P:netstat.ethernet.eth0.ipv4.addr	String	Configured/assigned IPv4 address.	192.168.1.100
P:netstat.ethernet.eth0.ipv4.gateway	String	Gateway IPv4 address.	192.168.1.1
P:netstat.ethernet.eth0.ipv4.nat.type	String	NAT traversal type detected for IPv4.	STUN , Turn , Symmetric , None
P:netstat.ethernet.eth0.ipv6.mode	String	IPv6 address allocation mode.	Auto , Static , DHCP
P:netstat.ethernet.eth0.ipv6.duid	String	DHCPv6 Unique Identifier (DUID).	000100012bc4d4b04f3668142034
P:netstat.ethernet.eth0.ipv6.addr.global	String	Assigned global IPv6 address.	2001:db8 :100
P:netstat.ethernet.eth0.ipv6.addr.link	String	Link-local IPv6 address.	fe80 :20b:82ff:fe11:2233
P:netstat.ethernet.eth0.ipv6.gateway	String	Gateway IPv6 address.	fe80 :1
P:netstat.ethernet.eth0.ipv6.nat.type	String	NAT traversal type detected for IPv6.	None
P:netstat.ethernet.eth0.vlan.id	Number	VLAN ID configured on eth0.	0 - 4094
P:netstat.ethernet.eth0.vlan.type	Number	VLAN tag type / priority.	0 - 7
P:netstat.dns.lists	String	List of active DNS servers (comma separated).	192.168.1.1,8.8.8.8

Ethernet Settings Parameters (GET / SET)

P-value	Alias Name	Type	Options / Range	Default	Description
P1415	network.internetProtocol	Number	0 : IPv4, 1 : IPv6, 2 : Both	2	Configured Internet Protocol Mode.
P8	network.port.eth.1.type	Number	0 : DHCP, 1 : Static IP, 2 : PPPoE	0	IPv4 address allocation mode.
P8300	network.dhcp.enableVlan	Number	0 : No, 1 : Yes	0	Enable DHCP VLAN override.
P146	network.dhcp.hostName	String	Max 64 chars	""	Optional hostname requested via DHCP.

P148	network.dhcp.vendorID	String	Max 64 chars	""	Optional DHCP Vendor Class ID (Option 60).
P9 - P12	network.port.eth.1.address.1 to .4	Number	0 - 255	192.168.0.160	IPv4 Static Address segments.
P13 - P16	network.port.eth.1.mask.1 to .4	Number	0 - 255	255.255.255.0	IPv4 Static Subnet Mask segments.
P17 - P20	network.port.eth.1.gateway.1 to .4	Number	0 - 255	0.0.0.0	IPv4 Default Gateway segments.
P21 - P24	network.dns.1.ip.1 to .4	Number	0 - 255	0.0.0.0	DNS Server 1 IP segments.
P25 - P28	network.dns.2.ip.1 to .4	Number	0 - 255	0.0.0.0	DNS Server 2 IP segments.
P92 - P95	network.dns.preferred.ip.1 to .4	Number	0 - 255	0.0.0.0	Preferred DNS Server IP segments.
P51	network.port.eth.1.vlan.tag	Number	0 - 4094	0	Layer 2 QoS 802.1Q/VLAN Tag for eth0.
P87	network.port.eth.1.vlan.priority	Number	0 - 7	0	Layer 2 QoS 802.1p Priority Value for eth0.
P82	network.port.eth.1.pppoe.account	String	Max 64 chars	""	PPPoE Account Username.
P83	network.port.eth.1.pppoe.password	String	Max 64 chars (masked on GET)	""	PPPoE Account Password. Returns "*****".
P269	network.pppoe.serviceName	String	Max 64 chars	""	PPPoE Service Name.
P1419	network.port.eth.1.ipv6.type	Number	0 : DHCP, 1 : Static IP	0	IPv6 Address Allocation Mode.
P1420	network.port.eth.1.ipv6.static.address	String	Valid IPv6 Address	""	IPv6 Static IP Address.
P1421	network.port.eth.1.ipv6.static.prefixLength	Number	0 - 128	""	IPv6 Static Prefix Length.
P1422	network.port.eth.1.ipv6.static.prefix	String	Valid IPv6 Prefix	""	IPv6 Static Prefix.
P22366	network.port.eth.1.ipv6.static.gateway	String	Valid IPv6 Gateway	""	IPv6 Default Gateway.
P1423	network.dns.preferred.ipv6	String	Valid IPv6 DNS Address	""	Preferred DNS Server (IPv6).
P1424	network.dns.1.ipv6	String	Valid IPv6 DNS Address	""	DNS Server 1 (IPv6).
P1425	network.dns.2.ipv6	String	Valid IPv6 DNS Address	""	DNS Server 2 (IPv6).
P1426	network.port.eth.1.ipv6.static.mode	Number	0 - 2	0	IPv6 Static Routing mode.

19. Event Notification

Configure Action URLs that are triggered automatically when specific system events or state transitions occur (e.g. card entry, relay changes, call status, registration transitions).

19.1 Query Event Notification Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=log

Request Example:

```
GET /goform/config?cmd=get&type=log HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P8304></P8304> <P8305>http: /192.168.1.50/registered</P8305> <P8306></P8306> <P8330></P8330>
<P8331></P8331> <P15525></P15525> <P15526></P15526> <P15527>http: /192.168.1.50/card_valid</P15527>
<P15528></P15528> <P15531></P15531> <P15532></P15532> <P8310></P8310> <P8311></P8311>
<P8312></P8312> <P8313></P8313> <P8314></P8314></Configuration>
```

19.2 Set Event Notification Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P15527=http%3A%2F%2F192.168.1.50%2Fcard_valid

Request Example:

```
GET /goform/config?cmd=set&P15527=http%3A%2F%2F192.168.1.50%2Fcard_valid HTTP/1.1Cookie:
sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

19.3 Field Reference Table

All event notification settings are string parameters.

P-value	Alias Name	Type	Options / Range	Default	Description
P8304	ons.actionUrl.setupC ompleted	String	Max 512 chars	""	Action URL triggered when device boot and setup is completed.
P8305	ons.actionUrl.register ed	String	Max 512 chars	""	Action URL triggered when a SIP account registers successfully.
P8306	ons.actionUrl.unregist ered	String	Max 512 chars	""	Action URL triggered when a SIP account becomes unregistered.
P8330	ons.actionUrl.openSy slog	String	Max 512 chars	""	Action URL triggered when syslog output is started/opened.
P8331	ons.actionUrl.closeSy slog	String	Max 512 chars	""	Action URL triggered when syslog output is stopped/closed.
P15525	ons.actionUrl.relayTri ggered	String	Max 512 chars	""	Action URL triggered when a door relay is energized/opened.

P15526	ons.actionUrl.relayClosed	String	Max 512 chars	""	Action URL triggered when a door relay returns to normal/closed.
P15527	ons.actionUrl.validCardEntered	String	Max 512 chars	""	Action URL triggered when a valid RFID card is swiped or PIN entered.
P15528	ons.actionUrl.invalidCardEntered	String	Max 512 chars	""	Action URL triggered when an invalid card is swiped or PIN fails.
P15531	ons.actionUrl.inputTriggered	String	Max 512 chars	""	Action URL triggered when an alarm input interface is tripped.
P15532	ons.actionUrl.inputClosed	String	Max 512 chars	""	Action URL triggered when an alarm input interface returns to normal.
P8310	ons.actionUrl.incomingCall	String	Max 512 chars	""	Action URL triggered when an incoming call is received by the device.
P8311	ons.actionUrl.outgoingCall	String	Max 512 chars	""	Action URL triggered when the device originates an outgoing call.
P8312	ons.actionUrl.missedCall	String	Max 512 chars	""	Action URL triggered when an incoming call goes unanswered.
P8313	ons.actionUrl.establishedCall	String	Max 512 chars	""	Action URL triggered when a call is answered and media starts.
P8314	ons.actionUrl.terminatedCall	String	Max 512 chars	""	Action URL triggered when a call is hung up/ended.

20. TR069 Settings

Configure TR-069 (CWMP) client settings on the device, including ACS connection URL, authentication credentials, periodic inform properties, and connection request parameters.

20.1 Query TR069 Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=tr069

Request Example:

```
GET /goform/config?cmd=get&type=tr069 HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P1409>1</P1409> <P4503>http: /acsguestb.gdms.cloud</P4503> <P4504>admin</P4504>
<P4505>*****</P4505> <P4506>1</P4506> <P4507>86400</P4507> <P4511>EC74D7619BE1</P4511>
<P4512>*****</P4512> <P4518>7547</P4518> <P8487>0</P8487></Configuration>
```

20.2 Set TR069 Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P4518=7547

Request Example:

```
GET /goform/config?cmd=set&P4518=7547 HTTP/1.1Cookie: sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

20.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P1409	tr069.enable	Number	0 : No, 1 : Yes	1	Enable TR-069 client support on the device.
P4503	tr069.url	String	Max 256 chars	""	ACS connection server URL.
P4504	tr069.username	String	Max 64 chars	""	ACS server authentication username.
P4505	tr069.password	String	Max 64 chars (masked on query)	""	ACS server authentication password. Returns "*****" on query.
P4506	tr069.periodicInform	Number	0 : No, 1 : Yes	1	Enable/disable sending periodic inform messages to ACS.
P4507	tr069.periodicInformInterval	Number	10 - 4294967295 (seconds)	86400	Periodic inform transmission interval.
P4511	tr069.connectionRequestUsername	String	Max 64 chars	""	Connection request authentication username.
P4512	tr069.connectionRequestPassword	String	Max 64 chars (masked on query)	""	Connection request authentication password. Returns "*****" on query.
P4518	tr069.connectionRequestPort	Number	1 - 65535	7547	Port used for receiving ACS connection requests.
P8487	tr069.randomStart.enable	Number	0 : No, 1 : Yes	0	Enable random delay before executing inform requests.

21. OpenVPN Settings

Configure OpenVPN client connection parameters, select cipher methods, and upload/delete cryptographic credentials (CA certificate, Client certificate, and Client key).

21.1 Query OpenVPN Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=openvpn

Request Example:

```
GET /goform/config?cmd=get&type=openvpn HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P7050>0</P7050> <P7051>vpn.example.com</P7051> <P7052>1194</P7052> <P2912>0</P2912>
<P22457>0</P22457> <P8396>1</P8396> <P8394>vpnuser</P8394> <P8395>*****</P8395> <P8508>0</P8508>
<P8460>comp-lzo</P8460> <P9902>1</P9902> <P9903>1</P9903> <P9904>1</P9904></Configuration>
```

21.2 Set OpenVPN Settings (SET)

Configure OpenVPN general options. (Note: Certificate/Key parameters P9902 , P9903 , P9904 cannot be updated via the SET interface; they must be managed via the UPLOAD/DEL interfaces below.)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P7052=1194

Request Example:

```
GET /goform/config?cmd=set&P7052=1194 HTTP/1.1Cookie: sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

21.3 Upload OpenVPN Credentials (UPLOAD)

Upload a CA certificate, Client certificate, or Client private key to the GDS device.

Endpoint: /goform/config

Method: POST (Multipart form-data)

Query Parameters:

```
cmd=upload (Required)type=4 (Required, specifies OpenVPN credential type)index=<value> (Required)0
: CA Certificate1 : Client Certificate2 : Client Keyfilename=<filename> (Optional, filename for
validation)
```

Request Payload: Multipart form-data with the certificate/key file attached (field name file).

Response (JSON):

```
{"response": "success", "body": "0"}
```

Response Body Values:

```
0 : Success.1 : File upload failed or certificate validation failed.2 : Certificate/key already
exists.
```

21.4 Delete OpenVPN Credentials (DEL)

Delete the uploaded CA certificate, Client certificate, or Client key from the device.

Endpoint: /goform/config

Method: GET

Query Parameters:

cmd=del (Required)openvpn=<value> (Required)0 : Delete CA Certificate1 : Delete Client Certificate2 : Delete Client Key

Request Example:

GET /goform/config?cmd=del&openvpn=0 HTTP/1.1Cookie: sid=<session_id>

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<body>true</body></Configuration>
```

Response Body Values:

true : Deletion succeeded.false : Deletion failed (e.g. credential was not present).

21.5 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P7050	openvpn.enable	Number	0 : No, 1 : Yes	0	Enable OpenVPN client support.
P7051	openvpn.server	String	Max 256 chars	""	OpenVPN server IP or domain name.
P7052	openvpn.port	Number	0 - 65535	1194	OpenVPN server port number.
P2912	openvpn.transport	Number	0 : UDP, 1 : TCP	0	Network protocol used for OpenVPN tunnel.
P22457	openvpn.tlsKeyType	Number	0 : None, 1 : TLS-Auth, 2 : TLS-Crypt	0	TLS key type for authentication/encryption.
P8396	openvpn.cipher	Number	0 : Blowfish, 1 : AES-128, 2 : AES-256, 3 : Triple-DES	1	Encryption cipher method.
P8394	openvpn.username	String	Max 256 chars	""	Username for OpenVPN server authentication.
P8395	openvpn.password	String	Max 256 chars (masked on query)	""	Password for OpenVPN server authentication. Returns "*****" on query.
P8508	openvpn.compLzo	Number	0 : No, 1 : Yes	0	Enable LZO compression.
P8460	openvpn.additionalOptions	String	Max 1024 chars	""	Custom OpenVPN parameters and options.
P9902	openvpn.caCert	String	Read-only	""	CA certificate content status indicator.
P9903	openvpn.clientCert	String	Read-only	""	Client certificate content status indicator.
P9904	openvpn.clientKey	String	Read-only	""	Client key content status indicator.

22. FTP Server Settings

Configure the FTP server address, port, credentials, and upload path used for snapshot or alarm JPEG uploads.

22.1 Query FTP Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=ftp

Request Example:

```
GET /goform/config?cmd=get&type=ftp HTTP/1.1Cookie: sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P14114>ftp.example.com</P14114> <P14115>21</P14115> <P14116>ftpuser</P14116>
<P14118>/upload/snapshots</P14118></Configuration>
```

Note: P14117 (ftp.userPassword) is write-only and will never appear in a GET response.

22.2 Set FTP Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P<ID>=<VALUE>& .

Request Example:

```
GET
/goform/config?cmd=set&P14114=ftp.example.com&P14115=21&P14116=ftpuser&P14117=s3cr3t&P14118=/upload
HTTP/1.1Cookie: sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

22.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P14114	ftp.serverAddress	String	Max 1024 chars	""	FTP server IP address or hostname.
P14115	ftp.serverPort	Number	0 - 65535	21	FTP server port number.
P14116	ftp.userName	String	Max 64 chars	""	FTP login username.
P14117	ftp.userPassword	String	Max 64 chars (write-only)	""	FTP login password. Cannot be read back via GET.
P14118	ftp.path	String	Max 1024 chars	/	Remote directory path on the FTP server for file uploads.

23. Whitelist Settings

Manages the device-level whitelist: phone numbers that are always allowed through the door. The enable flag (P10410) is stored in NVRAM. The whitelist contact list is configured via P22313 as a JSON array (write-only).

23.1 Query Whitelist Settings (GET)

Request

```
GET /goform/config?cmd=get&type=whitelistAccept: application/xmlCookie: sid=<SID>
```

Response (XML)

```
<Response> <ResCode>0</ResCode> <P10410>1</P10410> - Whitelist enabled (0/1) --> <whitelist> <item>
<id>121</id> <number>1233435</number> <note>user004</note> </item> <item> <id>120</id>
<number>121213454</number> <note>user003</note> </item> </whitelist></Response>
```

23.2 Set Whitelist Settings (SET)

Sets the full whitelist configuration. To set the whitelist list of contacts, configure P22313 with a JSON array string containing [number, note] pairs. Setting P22313 to [] clears the entire whitelist. The enable flag P10410 can be included in the same request.

Request

```
GET
/goform/config?cmd=set&P10410=1&P22313=%5B%5B%2217765551001%22%2C%22user001%22%2C%2217765551002%22%
2C%22user002%22%5D%5DAccept: application/xmlCookie: sid=<SID>
```

Parameter Description

Parameter	Description
P10410	Enable whitelist (0 / 1)
P22313	Whitelist contacts JSON array (e.g. [{"number", "note"}, .]). Write-only, cannot be read.

Response (XML)

```
<Response> <ResCode>0</ResCode></Response>
```

23.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P10410	call.allowlist.enable	Number (0 / 1)	1 : Yes, 0 : No	0	Enable whitelist
P22313	call.incomingcall.whitelist	JSON array string	-	""	Whitelist contacts JSON array

Note: P22313 is write-only. Querying it via GET will not return the raw JSON string; instead, the list of contacts is queried using cmd=get&type=whitelist inside the <whitelist> node.

24. Trusted CA Certificates

Configure trusted CA certificate load mode, and upload/delete trusted CA certificates via ApiGDS.

24.1 Query Trusted CA Settings (GET)

Retrieve the load mode and info of all 16 CA certificate slots.

Query Parameters: cmd=get&type=trustedca

Request Example (XML):

```
GET /goform/config?cmd=get&type=trustedca HTTP/1.1Accept: application/xmlCookie: sid=<SID>
```

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P8502>0</P8502> <CA0>id=1&origin=grandstream-WIN-QIBK16CBAR7-CA&expire=May 9 07:45:29 2034
GMT&;</CA0> <PCA0>id=1&origin=grandstream-WIN-QIBK16CBAR7-CA&expire=May 9 07:45:29 2034
GMT&;</PCA0> <CA1></CA1> <PCA1></PCA1> . <CA15></CA15> <PCA15></PCA15></Configuration>
```

24.2 Set Trusted CA Load Mode (SET)

Configure load mode.

Query Parameters: cmd=set&P8502=<mode>

Request Example (XML):

```
GET /goform/config?cmd=set&P8502=2 HTTP/1.1Accept: application/xmlCookie: sid=<SID>
```

Response (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

24.3 Upload Trusted CA Certificate (UPLOAD)

Upload a trusted CA certificate to a specific slot.

Query Parameters:

```
cmd=uploadtype=5 (Required, specifies Trusted CA)index=<0-15> (Required, CA slot
index)fname=<filename> (Optional, certificate file name)
```

POST Payload: Multipart form-data containing the file binary data.

Request Example:

```
POST /goform/config?cmd=upload&type=5&index=1&fname=ca.crt HTTP/1.1Content-Type:
multipart/form-data; boundary=----BoundaryCookie: sid=<SID>-----BoundaryContent-Disposition:
form-data; name="file"; filename="ca.crt"Content-Type: application/x-x509-ca-cert<binary
data>-----Boundary--
```

Response (XML):

```
<Response> <ResCode>0</ResCode> <body>0</body> <issuer>EC74D7619CF0</issuer> <expire>Aug 12
04:19:41 2050 GMT</expire></Response>
```

(Note: body value "0" indicates success, "1" indicates failure, "2" indicates slot already occupied)

24.4 Delete Trusted CA Certificate (DEL)

Delete certificate in a specific slot.

Query Parameters:

```
cmd=deltrustedca=<0-15> (Required, CA slot index)
```

Request Example:

```
GET /goform/config?cmd=del&trustedca=0 HTTP/1.1Accept: application/xmlCookie: sid=<SID>
```

Response (XML):

```
<Response><ResCode>0 /ResCode><body>true /body>/Response>
```

25. Date and Time

Configure device date and time format, override DHCP options, custom time zone rules, and NTP servers.

25.1 Query Date and Time Settings (GET)

Retrieve current date, time, NTP, and time zone settings.

Query Parameters: cmd=get&type=date

Request Example (XML):

```
GET /goform/config?cmd=get&type=date HTTP/1.1Accept: application/xmlCookie: sid=<SID>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P30>pool.ntp.org</P30> <P22309>0</P22309> <P22310>1</P22310> <P144>1</P144> <P143>1</P143>
<P64>auto</P64> <P246>MTZ+6MDT+5,M4.1.0,M11.1.0</P246> <P102>0</P102>
<P122>1</P122></Configuration>
```

25.2 Set Date and Time Settings (SET)

Modify Date and Time settings.

Query Parameters: cmd=set&<parameter>=<value> .

Request Example (XML):

```
GET /goform/config?cmd=set&P30=pool.ntp.org&P64=auto HTTP/1.1Accept: application/xmlCookie:
sid=<SID>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

25.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P30	dateTime.ntp.server.1	String	-	pool.ntp.org	NTP server address
P22309	dateTime.ntp.enable Auth	Number (0 : No, 1 : Yes)	1 : Yes, 0 : No	0	NTP authentication enable
P22310	dateTime.ntp.symmetricKeySID	Number (1 - 65535)	1-65535	1	NTP symmetric key ID
P144	dateTime.override.dhcp.allowOption42	Number (0 : No, 1 : Yes)	1 : Yes, 0 : No	1	Allow DHCP Option 42 to override NTP
P143	dateTime.override.dhcp.allowOption2	Number (0 : No, 1 : Yes)	1 : Yes, 0 : No	1	Allow DHCP Option 2 to override Time Zone
P64	dateTime.timezone	String / Number	See Timezone Value List below	auto	Time zone selection
P246	dateTime.timezone.custom	String	Max 64 chars	MTZ+6MDT+5,M4.1.0,M11.1.0	Custom Time Zone rule

P102	dateTime.format.date	Number	0 : yyyy-mm-dd, 1 : mm-dd-yyyy, 2 : dd-mm-yyyy, 3 : local format	0	Date format
P122	dateTime.format.time	Number	0 : 12Hour, 1 : 24Hour	1	Time format

Timezone Value List

Value	Timezone Name	Value	Timezone Name	Value	Timezone Name
0	Automatic	1	Eastern Time (no DST)	2	Arizona
3	America (no DST)	4	Yerevan	5	Central Africa Time
6	Central America	7	US Hawaiian Time	8	Moscow
9	Russia	10	Singapore	11	Caracas
12	San Juan	13	Greenland	14	Mid-Atlantic
15	Cape Verdi Is	16	Edinburgh	17	Monrovia
18	Casablanca	19	Morocco	20	Monrovia
21	Liberia	22	Cairo	23	Istanbul
24	Turkey	25	Kuwait	26	Baghdad
27	Iraq	28	Nairobi	29	Kenya
30	Abu Dhabi	31	UAE	32	Baku
33	Azerbaijan	34	Islamabad	35	Pakistan
36	Ekaterinburg	37	Russia	38	Karachi
39	Pakistan	40	Tashkent	41	Uzbekistan
42	Almaty	43	Kazakhstan	44	Astana
45	Kazakhstan	46	Dhaka	47	Bangladesh
48	Novosibirsk	49	Russia	50	Bangkok
51	Thailand	52	Hanoi	53	Vietnam
54	Krasnoyarsk	55	Russia	56	Beijing
57	China	58	Taipei	59	Taiwan
60	Kuala Lumpur	61	Malaysia	62	Irkutsk
63	Russia	64	Tokyo	65	Japan
66	Seoul	67	South Korea	68	Yakutsk
69	Russia	70	Argentina	71	Jakarta
72	Indonesia	73	Perth	74	Australia
75	Sao Paulo	76	Brazil	77	Brisbane
78	Australia	79	International Date Line West	80	Midway
81	America	82	American Samoa	83	Guam
84	Magadan	85	Russia	86	Solomon Islands
87	New Caledonia	88	Nukualofa	89	Tonga
90	Ulaanbaatar	91	Mongolia	92	Atlantic Time
93	Central Time	94	Eastern Time	95	US Mountain Time

96	Denver	97	America	98	Los Angeles
99	America	100	Darwin	101	Australia
102	Chennai	103	India	104	New Delhi
105	India	106	Mumbai	107	India
108	Kathmandu	109	Nepal	110	Rangoon
111	Burma	112	US Alaska Time	113	Self-Defined Time Zone
114	Atlantic Time (New Brunswick)	115	Paris	116	France
117	Vienna	118	Austria	119	Warsaw
120	Poland	121	Rome	122	Italy
123	Madrid	124	Spain	125	Prague
126	Czech	127	Berlin	128	Germany
129	Budapest	130	Hungary	131	Amsterdam
132	Netherlands	133	Brussels	134	Belgium
135	Santiago	136	Chile	137	Adelaide
138	Australia	139	Guadalajara	140	Mexico
141	Mexico City	142	Mexico	143	Monterrey
144	Mexico	145	Kyiv	146	Ukraine
147	Beirut	148	Lebanon	149	Bucharest
150	Romania	151	Jerusalem	152	Israel
153	Helsinki	154	Finland	155	Athens
156	Greece	157	Tallinn	158	Estonia
159	Hobart	160	Australia	161	Sydney
162	Australia	163	Melbourne	164	Australia
165	Canberra	166	Australia	167	Fiji
168	London	169	UK	170	Dublin
171	Ireland	172	Tehran	173	Iran
174	Chihuahua	175	Mexico	176	Mazatlan
177	Mexico	178	Newfoundland Time	179	Auckland
180	New Zealand	181	Wellington	182	New Zealand
183	Baja California	184	Mexico	185	Azores
186	Portugal	187	Lisbon	188	Portugal
189	Casablanca				

26. Holiday Settings

Configure holiday timetables on the GDS device. Up to 10 holiday schedules are supported.

26.1 Query Holiday Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=holiday

Request Example (XML):

```
GET /goform/config?cmd=get&type=holiday HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
...</Configuration>
```

26.2 Set Holiday Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P<P-value>=<value>

Request Example:

```
GET /goform/config?cmd=set&P15250=holiday1,20260101@20260101 HTTP/1.1Cookie: sid=<session_id>
```

26.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P15301	doorAccess.gdsManager.enable	Number	1 : Yes, 0 : No	0	Enable overall door access scheduler manager.
P15250	doorAccess.timetable.holiday1	String	Max 1024 chars	holiday1,	Holiday 1 name and date range(s) (Format: name,startdate@end date,startdate@end date .).
P15251	doorAccess.timetable.holiday2	String	Max 1024 chars	holiday2,	Holiday 2 name and date range(s).
P15252	doorAccess.timetable.holiday3	String	Max 1024 chars	holiday3,	Holiday 3 name and date range(s).
P15253	doorAccess.timetable.holiday4	String	Max 1024 chars	holiday4,	Holiday 4 name and date range(s).
P15254	doorAccess.timetable.holiday5	String	Max 1024 chars	holiday5,	Holiday 5 name and date range(s).
P15255	doorAccess.timetable.holiday6	String	Max 1024 chars	holiday6,	Holiday 6 name and date range(s).
P15256	doorAccess.timetable.holiday7	String	Max 1024 chars	holiday7,	Holiday 7 name and date range(s).
P15257	doorAccess.timetable.holiday8	String	Max 1024 chars	holiday8,	Holiday 8 name and date range(s).
P15258	doorAccess.timetable.holiday9	String	Max 1024 chars	holiday9,	Holiday 9 name and date range(s).
P15259	doorAccess.timetable.holiday10	String	Max 1024 chars	holiday10,	Holiday 10 name and date range(s).

27. Schedule Settings (door_schedule/alarm_schedule)

Configure weekly timetables on the GDS device. Up to 50 schedules are supported. Query type

door_schedule and alarm_schedule share the same set of timetables and P-values (timetables are unified across all GDS functions).

27.1 Query Schedule Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=door_schedule or cmd=get&type=alarm_schedule

Request Example (XML):

```
GET /goform/config?cmd=get&type=door_schedule HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg> ...</Configuration>
```

28. Security & Access Settings

Configure SSH access, web access ports and modes, session timeout, user privilege access, and server certificate validation.

28.1 Query Access Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=security

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg> <P276>0</P276> <P27006>22</P27006> <P22120>80</P22120> <P22121>443</P22121> <P1650>0</P1650> <P28116>15</P28116> <P8469>0</P8469> <P8463>1</P8463></Configuration>
```

28.2 Set Access Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P28116=30

Request Example (XML):

```
GET /goform/config?cmd=set&P28116=30 HTTP/1.1Cookie: sid=<session_id>
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg></Configuration>
```

28.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P276	security.ssh	Number	0 : Yes, 1 : No	0	SSH Access: 0 : Enable, 1 : Disable.
P27006	security.ssh.port	Number	1-65535	22	SSH Port. Range: 1 - 65535.

P22120	network.web.port.http	Number	80-65500	80	Web HTTP Port. Range: 1 - 65535.
P22121	network.web.port.https	Number	80-65500	443	Web HTTPS Port. Range: 1 - 65535.
P1650	security.webAccessMode	Number	0 : HTTPS, 1 : HTTP, 2 : Disabled, 3 : Both HTTP and HTTPS	0	Web Access Mode: 0 : HTTPS, 1 : HTTP, 2 : Disable.
P28116	security.webAccess.session.timeout	Number	1-60	15	Session Timeout (Minutes). Range: 1 - 60.
P8469	security.webAccess.user.enable	Number	1 : Yes, 0 : No	0	Enable User privilege access (Web): 0 : No, 1 : Yes.
P8463	security.validate.serverCertificate	Number	1 : Yes, 0 : No	1	Validate Server Certificate: 0 : No, 1 : Yes.

29.Syslog or Debug Settings

Configure system logging (Syslog) server, log levels, protocol, SIP logging flags, and keyword filtering.

29.1 Query Syslog/Debug Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=debug

Request Example (XML):

```
GET /goform/config?cmd=get&type=debug HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P1387>0</P1387> <P207>192.168.124.61</P207> <P208>1</P208> <P22129>WEB</P22129>
<P8402>0</P8402></Configuration>
```

29.2 Set Syslog/Debug Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P208=2

Request Example (XML):

```
GET /goform/config?cmd=set&P208=2 HTTP/1.1Cookie: sid=<session_id>Content-Type:
application/x-www-form-urlencodedP208=2
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

29.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P1387	maintain.syslog.sendSipLog	Number	1 : Yes, 0 : No	0	Send SIP Log: 0 : No, 1 : Yes.

P207	maintain.syslog.server	String	-		Syslog Server address (IP or domain name).
P208	maintain.syslog.level	Number	0 : None, 1 : Debug, 2 : Info, 3 : Warning, 4 : Error	1	Syslog Level: 0 : NONE, 1 : DEBUG, 2 : INFO, 3 : WARNING, 4 : ERROR.
P22129	maintain.syslog.keywordFiltering	String	Max 256 chars		Keyword filtering for system logging.
P8402	maintain.syslog.protocol	Number	0 : UDP, 1 : SSL/TLS	0	Syslog Protocol: 0 : UDP, 1 : TCP.

30. Reboot & Reset

Trigger a system reboot or trigger a factory reset.

30.1 Reboot Device (reboot)

Triggers a device reboot. Admin and User role privileges are allowed.

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=reboot

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<body>savereboot</body></Configuration>
```

30.2 Factory Reset Device

Triggers a factory reset on the device. Administrator role privileges are strictly required.

This command requires Administrator role privilege level (RoleAdmin). If an unauthorized role attempts this action, the server will return an error code GDS_RSP_READ_ONLY (ResCode 24), and the response body will contain needadmin. Note that the request's session ID (sid) is validated against active logged-in sessions to determine the authority level.

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=reset

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<body>reset</body></Configuration>
```

31. Packet Capture Settings

Configure packet capture options on the device.

31.1 Query Packet Capture Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=capture

Request Example (XML):

```
GET /goform/config?cmd=get&type=capture HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P6007>1</P6007> <P22419>0</P22419></Configuration>
```

31.2 Set Packet Capture Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P6007=1&P22419=0

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

31.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P6007	maintain.packetCapture.includeRtp	Number	1 : Yes, 0 : No	0	Include RTP: 0 : No, 1 : Yes.
P22419	maintain.packetCapture.withSecretKeyInformation	Number	1 : Yes, 0 : No	0	Capture Secret Key Info: 0 : No, 1 : Yes.

31.4 Start Packet Capture (START)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=start&type=capture&method=0&rtp=1&ssl=1

Request Example (XML):

```
GET /goform/config?cmd=start&type=capture&method=0&rtp=1&ssl=1 HTTP/1.1Cookie:
sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<body>flash</body></Configuration>
```

31.5 Stop Packet Capture (STOP)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=stop&type=capture

Request Example (XML):

```
GET /goform/config?cmd=stop&type=capture HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<body>stop</body></Configuration>
```

31.6 Download Packet Capture (EXPORT)

Retrieve the captured packet files from the device as a binary tarball archive (captures.tar).

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=export&type=capture

Request Example:

```
GET /goform/config?cmd=export&type=capture HTTP/1.1Cookie: sid=<session_id>
```

Response Example (Success - Binary File Transfer):

Returns the binary content of the captures.tar file with the Content-Type: application/octet-stream header.

Response Example (Error - Capture Is Still Running):

If the capture process is still running, the request will fail with HTTP status code 503 Service Unavailable.

31.7 Delete Packet Capture Files (DEL)

Clear all captured packet files stored on the device.

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=del&type=capture

Request Example (XML):

```
GET /goform/config?cmd=del&type=capture HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<body>true</body></Configuration>
```

Response Example (Error - Capture Is Still Running):

If the capture process is still running, the deletion will fail and return a Busy response:

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>23</ResCode>
<RetMsg>Busy</RetMsg></Configuration>
```

32.Upgrade Settings

Configure firmware upgrade, provisioning, configuration file servers, DHCP override options, and advanced security settings.

Credential/password parameters (P6769 , P1359 , P1361) are SET-only (write-only). They cannot be retrieved via GET requests to prevent exposing administrative credentials.

32.1 Query Upgrade Settings (GET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=get&type=upgrade

Request Example (XML):

```
GET /goform/config?cmd=get&type=upgrade HTTP/1.1Cookie: sid=<session_id>Accept: application/xml
```

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode> <RetMsg>OK</RetMsg>
<P6767>2</P6767> <P192>fm.grandstream.com/gs</P192> <P6768>myuser</P6768> <P232></P232>
<P233></P233> <P212>2</P212> <P237>fm.grandstream.com/gs</P237> <P1360>myuser</P1360> <P234></P234>
<P235></P235> <P240>0</P240> <P194>0</P194> <P193>10080</P193> <P286>1</P286> <P285>1</P285>
<P8459>-1</P8459> <P8458>0</P8458> <P238>0</P238> <P145>1</P145> <P1411>0</P1411> <P8337>1</P8337>
<P22053>0</P22053> <P8501>cfg$mac,cfg$mac.xml,cfg$product.xml,cfg.xml</P8501> <P8467>0</P8467>
<P1414>1</P1414> <P20713>0</P20713> <P4428>0</P4428> <P22030>0</P22030>
<P7070>1</P7070></Configuration>
```

32.2 Set Upgrade Settings (SET)

Endpoint: /goform/config

Method: GET

Query Parameters: cmd=set&P192=fm.grandstream.com/gs&P1361=mynewpassword

Response Example (XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

32.3 Field Reference Table

P-value	Alias Name	Type	Options / Range	Default	Description
P6767	provisioning.firmware.protocol	Number	0 : TFTP, 1 : HTTP, 2 : HTTPS, 3 : FTP, 4 : FTPS	2	Firmware Upgrade Protocol: 0 : TFTP, 1 : HTTP, 2 : HTTPS, 3 : FTP, 4 : FTPS.
P192	provisioning.firmware.serverPath	String	Max 512 chars	fm.grandstream.com/gs	Firmware Server Path.
P6768	provisioning.firmware.username	String	Max 256 chars	""	Firmware HTTP/FTP/TFTP Server Username.
P6769	provisioning.firmware.password	String	Max 256 chars	""	Firmware HTTP/FTP/TFTP Server Password. (SET only)
P232	provisioning.firmware.filePrefix	String	Max 512 chars	""	Firmware File Prefix.
P233	provisioning.firmware.filePostfix	String	Max 512 chars	""	Firmware File Postfix.
P212	provisioning.config.protocol	Number	0 : TFTP, 1 : HTTP, 2 : HTTPS, 3 : FTP, 4 : FTPS	2	Config Upgrade Protocol: 0 : TFTP, 1 : HTTP, 2 : HTTPS, 3 : FTP, 4 : FTPS.
P237	provisioning.config.serverPath	String	Max 512 chars	fm.grandstream.com/gs	Config Server Path.
P1360	provisioning.config.username	String	Max 512 chars	""	Config HTTP/FTP/TFTP Server Username.
P1361	provisioning.config.password	String	Max 512 chars	""	Config HTTP/FTP/TFTP Server Password. (SET only)

P234	provisioning.config.filePrefix	String	Max 512 chars	""	Config File Prefix.
P235	provisioning.config.filePostfix	String	Max 512 chars	""	Config File Postfix.
P240	provisioning.config.authenticateFile	Number	1 : Yes, 0 : No	0	Authenticate Config File: 0 : No, 1 : Yes.
P1359	provisioning.config.filePassword	String	Max 512 chars	""	Config XML File Password / Key. (SET only)
P194	provisioning.auto.mode	Number	0 : No, 1 : YesUpgradeMin, 2 : YesUpgradeHourOfDay, 3 : YesUpgradeDayOfWeek	0	Automatic Upgrade Mode: 0 : No, 1 : Yes, check daily; 2 : Yes, check weekly; 3 : Yes, check at period interval.
P193	provisioning.auto.minute	Number	60-86400	10080	Check Interval in minutes (for mode 3).
P286	provisioning.auto.day	Number	-	1	Check Weekly Day: 0 : Sunday, 1 : Monday, 2 : Tuesday, 3 : Wednesday, 4 : Thursday, 5 : Friday, 6 : Saturday.
P285	provisioning.auto.hour	Number	0-23	1	Check Hour of the day (0-23).
P8458	provisioning.auto.randomTime.enable	Number	1 : Yes, 0 : No	0	Random Time Autoprovision.
P8459	provisioning.auto.randomTime	Number	-	-1	Random time value.
P238	provisioning.downloadDeviceConfig	Number	0 : No, 1 : Yes	0	Download device configuration.
P145	provisioning.configFileEncryption	Number	0 : No, 1 : Yes	1	Configuration file encryption.
P1411	provisioning.configFileEncryptionType	Number	-	0	Configuration file encryption type.
P8337	provisioning.configFileEncryptionMode	Number	-	1	Configuration file encryption mode.
P22053	provisioning.configFileEncryptionKey	String	-	0	Configuration file encryption key.
P8501	provisioning.configFileNames	String	Max 1024 chars	cfg\$mac,cfg\$mac.xml,cfg\$product.xml,cfg.xml	Configuration file names.
P8467	provisioning.config.processAll.enable	Number	1 : Yes, 0 : No	0	Process All Config Files: 0 : No, 1 : Yes.
P1414	provisioning.3cxAutoProvision	Number	1 : Yes, 0 : No	1	3CX Auto Provisioning: 0 : No, 1 : Yes.
P20713	provisioning.alwaysAuthenticateBeforeChallenge	Number	1 : Yes, 0 : No	0	Always Authenticate Before Challenge: 0 : No, 1 : Yes.
P4428	sip.notify.challenge	Number	0 : Yes, 1 : No	0	SIP NOTIFY Challenge: 0 : No, 1 : Yes.
P22030	provisioning.validateCertificationChain.enable	Number	1 : Yes, 0 : No	0	Validate Certification Chain: 0 : No, 1 : Yes.

P7070	services.autoLocation.enable	Number	1 : Yes, 0 : No	1	Services Auto Location: 0 : No, 1 : Yes.
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32.4 Firmware Available Version Check (fw_upgrade)

This command requires Administrator role privilege level (RoleAdmin). If an unauthorized role attempts this action, the server will return an error code GDS_RSP_READ_ONLY (ResCode 24) and the response body will contain needadmin . Note that the request's session ID (sid) is validated against active logged-in sessions to determine the authority level.

Endpoint: /goform/config

Method: GET

33. Configuration Import Export

The document provides configuration import functionality through the HTTP API.

Configuration Import

Endpoint: /goform/config

Method: POST

Query Parameters:

Parameter	Type	Required	Default	Description
cmd	String	Yes	-	Fixed value: upload
type	String	Yes	-	Fixed value: 1 (indicates system configuration import)
format	String	No	xml	Format of status response: xml : XML status response json : JSON status response

Request Payload: Multipart form-data payload with the configuration file attached under the field name file.

Request Example (XML response format):

```
POST /goform/config?cmd=upload&type=1&format=xml HTTP/1.1Cookie: sid=<session_id>Content-Type:
multipart/form-data; boundary=----WebKitFormBoundary-----WebKitFormBoundaryContent-Disposition:
form-data; name="file"; filename="config.txt"Content-Type:
text/plainP2=adminP250=1-----WebKitFormBoundary--
```

Response Example (Success - XML):

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>0</ResCode>
<RetMsg>OK</RetMsg></Configuration>
```

Response Example (Busy - XML):

If the device is currently applying another configuration import, the server will return a Busy response:

```
<?xml version="1.0" encoding="UTF-8"?><Configuration> <ResCode>23</ResCode>
<RetMsg>Busy</RetMsg></Configuration>
```

34. SNMP Settings

Unsupported.

35. System Health Alert

Unsupported.

Supported Devices

Model	Minimum Required Firmware
GDS3725	1.0.3.9+
GDS3726	1.0.3.9+
GDS3727	1.0.3.9+

Change Log

This section documents significant changes from previous versions of the user manual for HTTP API features on the GDS372x. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

Version 1.1

- This is the initial version.
-