

## Grandstream Networks, Inc.

Grandstream GXV3370/GXV3380/GXV3350/WP820

### **WEB API User Guide**



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## OVERVIEW

This document explains in detail the external HTTP-based application programming interface and parameters of functions via the supported method. The HTTP API is firmware dependent. Please refer to the related firmware Release Note for the supported functions.

The implemented web APIs abide by RESTful API style, supporting GET and POST HTTP request types that provide access and control over phone's related data. Operations such as checking account status, adding/editing/deleting a contact number, making a phone call, and so on can be performed with correct API requests.

Web authentication and credentials might be required for certain API requests. To successfully perform API requests, please follow the formats and rules as shown in Web API Definitions.





## WEB AUTHENTICATION GUIDE

This section discusses the available authorization methods that are used by Web API.

### Web API Base URL

[http/https]://{ipaddress}/cgi-bin/

### Request for Random Number

#### Endpoint

GET loginrealm

#### Usage

Get the random number from server for authentication.

#### Parameters

Query Parameter	Value
N/A	

#### Response

Response	Value Type	Description
Random number	String	The random number requests from the server which would be used for only once.

### Password Token Authentication

#### Endpoint

GET login

#### Usage

Use username and encrypted password to pass the authentication.

#### Parameters

The request must contain the following parameters in query string:



Query Parameter	Value
<b>Username</b>	The default username is "gmiadmin".
<b>Secret</b>	Using MD5 algorithm to encrypt the string that is connected by username, random number and password. The default passcode is "admin". MD5("gmiadmin" + "." + \${random} + "." + password)

## Authentication Validate Prototype

The following figure shows an illustration of the authentication validation process:

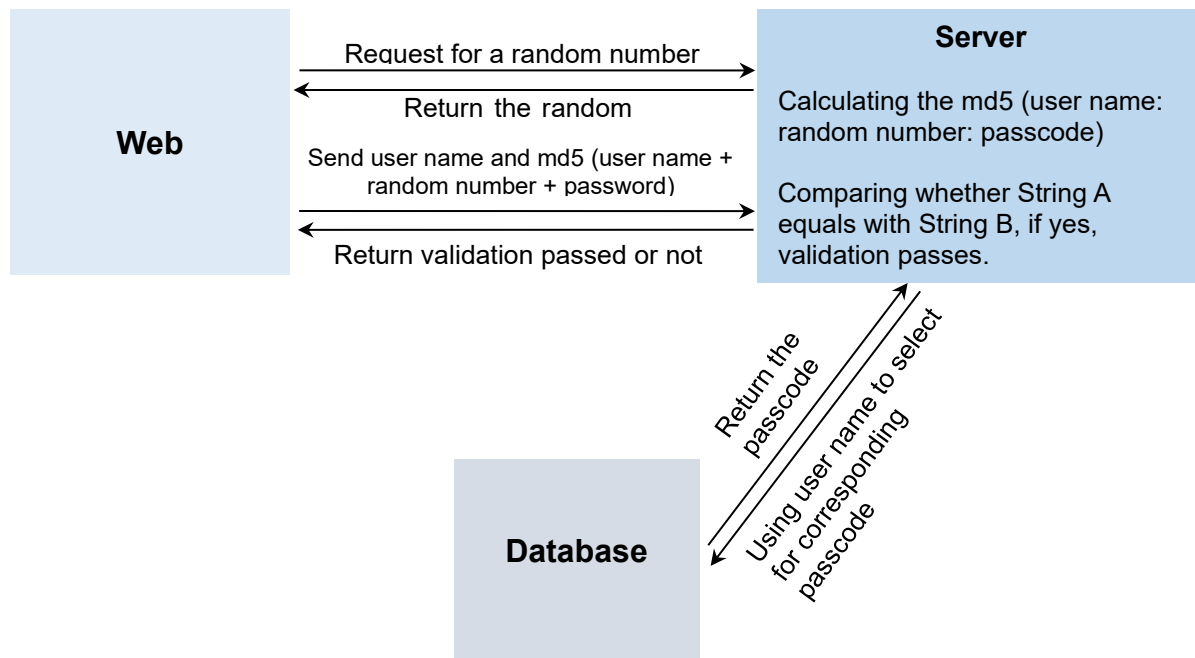


Figure 1: Authentication validation process



## WEB API DEFINITIONS

This section provides the definition of the GXV32XX/33XX Web API.

### Web API Base URL:

[http/https]://{ipaddress}/cgi-bin/

### Return Values Request

#### Endpoint

GET api-values.get

#### Usage

Get stored values on a device.

#### Authentication

None (limited return), Forms of authentication [admin|user]

#### Parameters

Query Parameter	Value
<b>request</b>	The request value names separated by ":". <b>Example:</b> request=2:68:vendor_name

**Example of Request URI:** http://172.16.2.127/cgi-bin/api-values.get?request=2:68:vendor\_name

#### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

```
{
  "response": "success",
  "body": {
    "68": "11.16.8.20",
    "1561": "",
    "7033": "1.0.1.7",
    "vendor_name": "Grandstream",
    "vendor_fullname": "Grandstream Networks, Inc.",
  }
}
```



```

    "hw_rev": "V2.2A",
    "tp_fw_version": "22"
  }
}

```

## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response.
<b>body</b>	Object of the request values	Request values being bound to an object using key and value pair.

## Post Values Request

### Endpoint

GET api-values.post

### Usage

Modify/update values on a device

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>PVALUE_NAME</b>	Value of given PVALUE. <b>NOTE:</b> name must start with P <b>Example:</b> P2=admin

**Example of Request URI:** <http://172.16.2.127/cgi-bin/api-values.post?P2=admin&P196=123>

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format



```
{
  "response": "success",
  "body": {
    "status": "right"
  }
}
```

## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response.
<b>body</b>	Object of the request values	Object contains the update status

## Change Password

### Endpoint

GET api-change\_password

### Usage

Change admin or user password

### Authentication

Forms Authentication [admin|user]

NOTE: user account is only allowed to change his/her own password

### Parameters

Body Parameter	Value
<b>oldadmin</b>	Current admin password
<b>P2</b>	New admin password. Must include valid "oldadmin" password when intended to change admin password
<b>olduser</b>	Current user password
<b>P196</b>	New user password. Must include valid "olduser" password when intend to change user password

**Example of Request URI:** [http://172.16.2.127/cgi-bin/api-change\\_password?oldadmin=admin&P2=newadmin&olduser=123&P196=123456](http://172.16.2.127/cgi-bin/api-change_password?oldadmin=admin&P2=newadmin&olduser=123&P196=123456)



## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

```
{
  "response": "success",
  "body": {
    "status": "right"
  }
}
```

## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response.
<b>body</b>	Object of the request values	Object contains the update status.

## Get Contact

### Endpoint

GET api-get\_contacts

### Usage

Query the existing contacts.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>contactid</b>	<b>[OPTIONAL]</b> Set contactid as an existing id will get the corresponding details for the contact.
<b>contactname</b>	<b>[OPTIONAL]</b> Use contactname as keyword to search if contact name in database contain the keyword, if yes, it will be returned.
<b>groupid</b>	<b>[OPTIONAL]</b> Returns the contacts information in the corresponding group.

**Note:** Leaving contactid, contactname and groupid blank will return all data for contacts.



### Examples of Request URI:

http://172.16.2.127/cgi-bin/api-get\_contacts?contactid=1  
 http://172.16.2.127/cgi-bin/api-get\_contacts?contactname=abc  
 http://172.16.2.127/cgi-bin/api-get\_contacts?groupid=2  
 http://172.16.2.127/cgi-bin/api-get\_contacts

### Response Format

```

{
  "res": "success",
  "msg": [
    {
      "contactID": "0",
      "contactName": "xxx",
      "groupID": "0",
      "work": "8819",
      "home": "",
      "mobile": "",
      "fax": "",
      "email": ""
    },
    {
      "contactID": "1",
      "contactName": "grandstream",
      "groupID": "0",
      "work": "3587",
      "home": "",
      "mobile": "",
      "fax": "",
      "email": ""
    }
  ]
}
  
```

### Response object

Key	Value Type	Description
<b>res</b>	String	The status of the response
<b>msg</b>	Array of contact object	Return of the contact objects

### Contact object

Key	Value Type	Description
<b>contactID</b>	Integer	Contact's ID
<b>contactName</b>	String	Contact's name
<b>groupID</b>	Integer	The group id for the contact



<b>work</b>	String	Work phone number
<b>home</b>	String	Home phone number
<b>mobile</b>	String	Mobile phone number
<b>fax</b>	String	Fax number
<b>email</b>	String	Email address

## Save/Edit Contact

### Endpoint

GET api-save\_edit\_contact

### Usage

Save phone book contact.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>id</b>	<b>[OPTIONAL]</b> Contact ID number. Leave id blank will insert a new contact record, and when set as an exist id will edit the corresponding contact information.
<b>firstname</b>	Contact's first name
<b>lastname</b>	Contact's last name
<b>group</b>	<b>[OPTIONAL]</b> Contact's group ID
<b>newphone1</b>	<b>[OPTIONAL]</b> Contact's new phone number (Work)
<b>newphone2</b>	<b>[OPTIONAL]</b> Contact's new phone number (Home)
<b>newphone3</b>	<b>[OPTIONAL]</b> Contact's new phone number (Mobile)
<b>newphone4</b>	<b>[OPTIONAL]</b> Contact's new phone number (Work Fax)
<b>email</b>	<b>[OPTIONAL]</b> Contact's Email

### Example of Request URI:

http://172.16.2.127/cgi-bin/api-save\_edit\_contact?firstname=Jack&lastname=Brown&newphone1=123456





## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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

## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response
<b>body</b>	String	<Empty>

## Delete All Contacts

### Endpoint

GET api-delete\_all\_contact

### Usage

Delete all phonebook contacts.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
N/A	

### Example of Request URI

http://172.16.2.127/cgi-bin/api-delete\_all\_contact

## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format



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

## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response
<b>body</b>	String	<Empty>

## Delete Contact

### Endpoint

GET api-delete\_contact

### Usage

Delete phone book contact.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>id</b>	Contact ID number. The contact id can be obtained from Get Contact API.

### Example of Request URI

E.g.: http://172.16.2.127/cgi-bin/api-delete\_contact?id=1

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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



## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response
<b>body</b>	String	<Empty>

## Add Contact Group

### Endpoint

GET api-add\_group

### Usage

Add new contact group.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>name</b>	Name of the new contact group.

**Example of Request URI :** http://172.16.2.127/cgi-bin/api-add\_group?name=newGroup

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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

## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response
<b>body</b>	String	<Empty>



## Get Contact Group

### Endpoint

Get api-get\_groups

### Usage

Query the existing groups.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>Id</b>	[OPTIONAL]. Leaving id blank will get all records of groups. Setting it as an existing id will get the corresponding details for the group.

**Example of Request URI :** http://172.16.2.127/cgi-bin/api-get\_groups

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

```
{
  "res": "success",
  "msg": [
    {
      "groupID": "0",
      "groupName": "default"
    },
    {
      "groupID": "100",
      "groupName": "blacklist"
    }
  ]
}
```

### Response object

Key	Value Type	Description
<b>res</b>	String	The status of the response.
<b>msg</b>	Array of group object	Return of the group objects.



## Group object

Key	Value Type	Description
<b>goupID</b>	Integer	The group ID.
<b>body</b>	String	The group Name.

## Edit/delete Contact Group

### Endpoint

GET api-edit\_delete\_group

### Usage

Edit or delete existing contact group.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>id</b>	Group ID, which can be obtained from get groups API.
<b>name</b>	New group name. Leaving the name blank will delete the group.

### Example of Request URI

http://172.16.2.127/cgi-bin/api-edit\_delete\_group?id=1&name=

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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

### Response object

Key	Value Type	Description
<b>Response</b>	String	The status of the response
<b>body</b>	String	<Empty>



## Get Account Status

### Endpoint

GET api-get\_accounts

### Usage

Get device account status.

### Authentication

Forms Authentication [admin|user]

### Parameters

Body Parameter	Value
<b>registered</b>	<b>[OPTIONAL]</b> Filter only to return the registered accounts. Can be set to "1" or "true" to enable.

### Example of Request URI

http://172.16.2.127/cgi-bin/api-get\_accounts?registered=true

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

```
{
  "response": "success",
  "body": [
    {
      "id": 1,
      "sip_server": "pbx.grandstream.com",
      "sip_id": "699",
      "name": "John Somebody",
      "reg": 1
    },
    {
      "id": 2,
      "sip_server": "96.31.248.32",
      "sip_id": "9064",
      "name": "9064 (openser)",
      "reg": 1
    },
    {
      "id": 3,
      "sip_server": "172.18.26.124",
      "sip_id": "1025",

```



```

    "name": "1025",
    "reg": 1
  },
  {
    "id": 4,
    "sip_server": "as.iop1.broadworks.net",
    "sip_id": "1016",
    "name": "1016 (BS)",
    "reg": 0
  }
]
}

```

### Response object

Key	Value Type	Description
<b>Response</b>	String	The status of the response
<b>body</b>	Array of account status object	Return of the account's status objects

### Account Status object

Key	Value Type	Description
<b>Id</b>	Integer	Account ID.
<b>sip_server</b>	String	Account SIP server address.
<b>sip_id</b>	String	Account SIP user ID.
<b>name</b>	String	Account display name.
<b>reg</b>	Integer	Account register status.

## Get Line Status

### Endpoint

GET api-get\_line\_status

### Usage

Get device line status.

### Authentication

Forms Authentication [admin|user]



## Parameters

Body Parameter	Value
line	<b>[OPTIONAL]</b> Filter only to return the given line status. 0 to maximum available lines.

**Example of Request URI:** [http://172.16.2.127/cgi-bin/api-get\\_line\\_status?line=0](http://172.16.2.127/cgi-bin/api-get_line_status?line=0)

## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

```
{
  "response": "success",
  "body": [
    {
      "line": 1,
      "state": "2",
      "acct": "",
      "name": "",
      "number": "",
      "active": 0
    },
    {
      "line": 2,
      "state": "3",
      "acct": "",
      "name": "",
      "number": "",
      "active": 0
    },
    {
      "line": 3,
      "state": "3",
      "acct": "",
      "name": "",
      "number": "",
      "active": 0
    },
    {
      "line": 4,
      "state": "8",
      "acct": "",
      "name": "",
      "number": "",
      "active": 0
    }
  ]
}
```





## Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response
<b>body</b>	Array of line status object	Return of the line's status objects

## Line Status object

Key	Value Type	Description
<b>line</b>	Integer	Line ID
<b>state</b>	String	Line Status 0 = idle 2 = ringing 3 = calling 4 = in call 5 = hold 8 = failed
<b>acct</b>	String	The account that is currently used on this line
<b>name</b>	String	Remote party name
<b>number</b>	String	Remote party number
<b>active</b>	String	Whether the line is active or not

## Get Phone Status

### Endpoint

GET api-get\_phone\_status

### Usage

Get phone/device session status.

### Authentication

None | Forms Authentication [admin|user] | Password Token Authentication

### Parameters

Query Parameter	Value
N/A	



## Example of Request URI

http://172.16.2.127/cgi-bin/api-get\_phone\_status

## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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

## Response object

Key	Value Type	Description
<b>Response</b>	String	The status of the response
<b>body</b>	String	Status of the device: <b>unauthorized</b> = the session is expired or the given credential is invalid. <b>available</b> = the device is registered and idle. <b>ringing</b> = the device has at least one line is currently ringing. <b>busy</b> = the device is currently in busy state.
<b>misc</b>		Misc. information. 1 = Click to dial is currently enabled

## Get System Time

### Endpoint

GET api-get\_time

### Usage

Get system time.

### Authentication

Forms Authentication [admin|user]



## Parameters

Query Parameter	Value
N/A	

**Example of Request URI :** http://172.16.2.127/cgi-bin/api-get\_time

## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

```
{
  "date": "Tue 08/30/2016",
  "time": " 11:30AM",
  "uptime": " 21 days, 1 hour, 50 minutes, 23seconds"
}
```

## Response object

Key	Value Type	Description
date	String	Current system date
time	String	Current system time
uptime	String	System uptime

## Make Call

### Endpoint

GET api-make\_call

### Usage

Dial an outgoing call.

### Authentication

Forms Authentication [admin|user] | Password Token Authentication

## Parameters

Query Parameter	Value
phonenumber	Dialed number



<b>account</b>	Account used for this call
----------------	----------------------------

### Example of Request URI

http://172.16.2.127/cgi-bin/api-make\_call?phonenumber=123456&account=0

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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

### Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response
<b>body</b>	String	<Empty>

## Phone/Call Operations

### Endpoint:

GET api-phone\_operation

### Usage

Perform a phone operation.

### Authentication

Forms Authentication [admin|user] | Password Token Authentication

### Parameters:

Query Parameter	Value
<b>cmd</b>	Operation command: <b>endcall</b> = end the call on the given line (needs arg). <b>holdcall</b> = hold the call on the given line (needs arg).



	<b>acceptcall</b> = Accept the call on the given line (needs arg). <b>rejectcall</b> = Reject the call on the given line (needs arg).
<b>Line</b>	Line ID.

**Example of Request URI:** http://172.16.2.127/cgi-bin/api-phone\_operation?cmd=endcall&line=0

### Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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

### Response object

Key	Value Type	Description
<b>response</b>	String	The status of the response.
<b>body</b>	String	"true" when the command is handled

## System Operations

### Endpoint

GET api-sys\_operation

### Usage

Perform a system operation.

### Authentication

Forms Authentication [admin|user] | Password Token Authentication

### Parameters

Query Parameter	Value
<b>request</b>	Request Operation:  <b>REBOOT</b> = reboot the device <b>RESET</b> = factory reset the device (required admin) <b>PROV</b> = provision the device (required admin)



**Example of Request URI:** [http://172.16.2.127/cgi-bin/api-sys\\_operation?request=REBOOT](http://172.16.2.127/cgi-bin/api-sys_operation?request=REBOOT)

## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body in JSON format

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

## Response object

Key	Value Type	Description
response	String	The status of the response
body	String	Operation handle status

## Phonebook Download

### Endpoint

GET phonebook\_download

### Usage

Download the phonebook XML

### Authentication

Forms Authentication [admin|user]

### Parameters

Query Parameter	Value
N/A	

**Example of Request URI:** [http://172.16.2.127/cgi-bin/phonebook\\_download](http://172.16.2.127/cgi-bin/phonebook_download)



## Response Format

On SUCCESS, the HTTP status code in the response header is 200 OK and the response body is in Phonebook XML format (Please refer to GXP2200 XML Based Downloadable Phonebook Guide for detailed format description)

