Grandstream Networks, Inc.

GSC35XX : CTI Guide

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Request format

The general CTI commands request format is:

```
http://Phone-IP-Address/cgi-bin/function?passcode=PASSWORD&param=value
```

"Function" is one of CTI functions as described in next chapter (api-get_line_status for example)

"Password" is the phone s admin level password "Param=value" is the parameter for specific CTI function type

Response format

Positive answer with no returned value

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

Negative answer

```
{"response":"error", "body": "failed"}
```

Positive answer with returned values

```
{"response":"success", "body": [{"line": 1, "state": "idle", "acct": "","remotename": "",
"remotenumber":


"", "active": 0}, {"line": 2,"state":"idle", "acct": "", "remotename": "", "remotenumber": "",
"active":


0},{"line": 3, "state": "idle", "acct": "", "remotename": "", "remotenumber": "", "active": 0}]}
```

TYPE OF CTI FUNCTIONS

Please refer to following table describing type of CTI functions supported:

Type	Function	Description	Method
Phone Status	api-get_phone_status	Retrieves phone status	GET
Make Call	api-make_call	Make a general call	GET
Phone Operations	api-phone_operation	Sends phone operations commands (hang up, answer call, reject call...)	GET
System Operations	api-sys_operation	Sends system operations commands (reset, reboot...)	GET
Get Local Music List	api-get_music	get the local music list stored in device	GET
Music play control	api-ctrl_music_play	control the local music play or stop	GET

CTI functions supported

CTI COMMANDS AND EXAMPLES

Following commands have been run in a web browser on computer in same phone's network. In the examples below, a GSC3516 device is used with IP address **192.168.5.135** and admin level password set to default (passcode=admin).

Phone Status Function

General Format

The general format of CTI command to retrieve phone status is:

```
http://Phone-IP-Address/cgi-bin/api-get_phone_status?passcode=PASSWORD
```

Introduction to URL parameters

passcode : PASSWORD

Example

Request	http://192.168.5.135/cgi-bin/api-get_phone_status? passcode=admin
Response	Phone available {"response":"success", , "misc": "1"} "body": "available" Phone busy {"response":"success", "misc": "1"} "body": "busy",

Make Call

General Format

The general format of CTI command to initiate call is:

```
http://Phone-IP-Address/cgi-bin/api-make_call?passcode=PASSWORD&phonenumber=NUMBER
```

Introduction to URL parameters

passcode : PASSWORD

phonenumber : phone number

Example

Request	http://192.168.5.135/cgi-bin/api-make_call?passcode=admin&phonenumber=35463
Response	{ "response": "success", "body": true }

Phone Operations Functions

General format

The general format of CTI command to send phone operations is:

```
http://Phone-IP-Address/cgi-bin/api-phone_operation?passcode=PASSWORD&cmd=CMD
```

Introduction to URL parameters

passcode : PASSWORD

cmd : phone operations functions

Examples

Operation	Function	Examples
endcall	End established call	http://192.168.5.135/cgi-bin/api-phone_operation?passcode=admin&cmd=endcall
acceptcall	Accept incoming call	http://192.168.5.135/cgi-bin/api-phone_operation?passcode=admin&cmd=acceptcall
rejectcall	Reject incoming call	http://192.168.5.135/cgi-bin/api-phone_operation?passcode=admin&cmd=rejectcall
mute	Mute or unmute during calls	http://192.168.5.135/cgi-bin/api-phone_operation?passcode=admin&cmd=mute the first trigger is mute,then the second trigger is unmute.

System Operations Functions

General Format

The general CTI command to send system operations is:

```
http://Phone-IP-Address/cgi-bin/api-sys_operation?passcode=PASSWORD&request=CMD
```

Introduction to URL parameters

passcode : PASSWORD

request : system operations functions

Examples

Operation	Function	Example
REBOOT	Reboot the device	http://192.168.5.135/cgi-bin/api-sys_operation?passcode=admin&request=REBOOT
RESET	Reset the device to Defualt Settings	http://192.168.5.135/cgi-bin/api-sys_operation?passcode=admin&request=RESET

Get Local Music List

General Format

The general CTI command to get local music list is:

```
http://Phone-IP-Address/cgi-bin/api-get_music?passcode=PASSWORD
```

Introduction to URL parameters

passcode : PASSWORD

Example

Request	http://192.168.5.135/cgi-bin/api-get_music? passcode=admin
Response	{"response":"success", "body":[{"fileName": "music1.ogg", "path": "/var/user/music/music1.ogg"}, {"fileName": "music2.ogg", "path": "/var/user/music/music2.ogg"}]}

Music Play Control

General Format

The general CTI command to play or stop music play is:

```
http://Phone-IP-Address/cgi-bin/api-ctrl_music_play?passcode=PASSWORD&state=STATE&type=TYPE&url=URL
&loop=LOOP
```

Introduction to URL parameters

```
passcode : PASSWORD

state : stop or play music. (0 - stop; 1 - play)

type : 1, Default value

url : Music playback path,You can obtain music paths through the "api-get_music" interface

loop : Single or looping playback. (0 - single; 1 - loop)
```

Example

Function	Example
Loop Playback	http://192.168.5.135/cgi-bin/api-ctrl_music_play?passcode=admin&state=1&type=1&url=/var/user/music/music1.ogg&loop=1
Single Playback	http://192.168.5.135/cgi-bin/api-ctrl_music_play?passcode=admin&state=1&type=1&url=/var/user/music/music1.ogg&loop=0
Stop Playback	http://192.168.5.135/cgi-bin/api-ctrl_music_play? passcode=admin&state=0&type=1&url=/var/user/music/music1.ogg&loop=0

Supported Models

Model name	CTI Support	Firmware requirements
GSC3505	YES	1.0.3.8 or higher

GSC3510	YES	1.0.3.8 or higher
GSC3506	YES	1.0.3.8 or higher
GSC3516	YES	1.0.3.8 or higher
GSC3518HS	YES	1.0.3.13 or higher

Supported GSC Models