

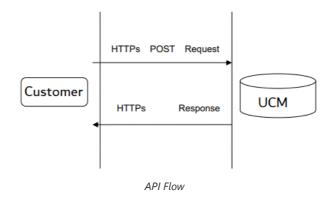
Grandstream Networks, Inc.

UCM6xxx **HTTPS API** 



## **UCM6xxx HTTPS API**

The UCM6xxx provides a new API interface to query, edit PBX settings and implement multiple call functions on another server connected to it via API. UCM will actively send system reports and call reports to this other server. Additionally, legacy CDR API, REC API and PMS API in addition to QUEUE API are included and supported by default when enabling API.



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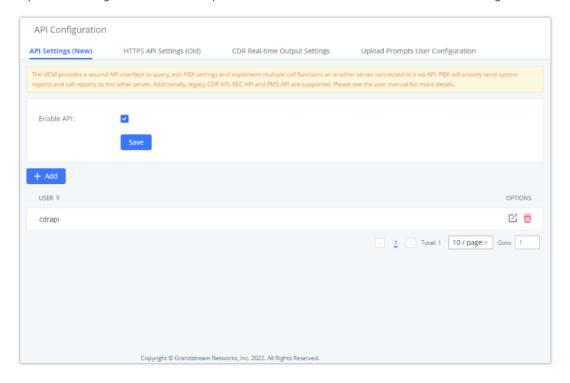
## **API Basics**

To get started with UCM's API feature, users must configure the HTTPS API settings and get familiar with the feature's communication method, equest structure, response messages, and event reports.

## **Configuring the API**

## **Enabling PBX API Interface**

- 1. Log into the UCM web UI and navigate to Integrations > API Configuration > HTTPS API Settings (New).
- 2. Check the Enable option and configure a username and password. These credentials will be used when connecting to the API.



#### Note

The admin can create multiple users with different credentials to be able to authenticate into the API.

Enable	Enable/Disable API. The default setting is disabled.
Username	Configure the username for API Authentication.
Password	Configure the password for API Authentication.
Call Control	If enabled, 3rd party applications will be able to manage inbound calls via API actions.  acceptCall will accept incoming calls while refuseCall will reject them. If no actions are done within 10 seconds, calls will automatically be accepted.

New API Configuration Parameters

## **Login Restrictions**

When several failed login attempts have been made from a specific IP address, that IP address will be added to the UCM's blacklist and will be unable to access the UCM. To ensure this doesn't happen to trusted IP addresses, consider enabling and adding its IP address to the whitelist as shown on the same page as the server configuration.

#### ommunication

#### **Communication Protocol**

The API uses HTTPS protocol and the same certificate used for UCM web portal. If the UCM is using HTTP, the API feature cannot be used.

#### **JSON data into HTTP request**

Below is a JSON example of challenge action and how the JSON script will be encapsulated in HTTPS Post request:

```
curl -H "Content-Type: application/json; charset=UTF-8" -H "Connection: close" -X POST -d '{"request": {"action": "challenge", "user": "cdrapi", "version": "1.0"}}' -k "https://192.168.5.153:8089/api" --insecure
```

As a response to the sent request, the UCM will return a challenge string which will be used to generate the token as mentioned above and with the same structure the **login** action needs to be sent to have the cookie id as response.

#### **Communication Method**

The communication between the UCM and 3<sup>rd</sup> party applications is like the following:

- o 3<sup>rd</sup> party application server sends request to UCM:
  - 1. 3<sup>rd</sup> party application initiates the request.
  - $2.\,3^{\rm rd}$  party application is the client, and UCM is the server.
  - 3. Scenario: 3<sup>rd</sup> party application initiates calls and sends query to UCM.

## **Version Control**

"Challenge" requests must contain the API version number. If version is not specified, requests will be parsed based on the latest version of the API, and this may result in information being processed incorrectly. Thus, it is highly recommended to include version number in the challenge request.

**Example:** If the latest API version is 1.2, and the 3rd party interface was developed using version 1.0, version 1.0 must be included when sending the challenge request.

```
{"request": {"action": "challenge", "version": "1.0", "user": "api"}}
```

## **Operation Log**

UCM's Operation Log feature is able to display API activity history. API actions will be labeled with "(API)" at the end of each entry. Operation Log entries can be filtered and deleted.

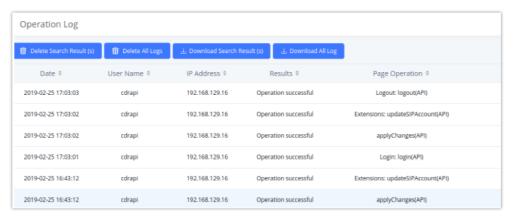


Figure 4: Operation Log

# **API Queries**

The new API supports the queries listed below which will accomplish certain requests and get DATA about different modules on UCM62xx.

getSystemStatus	addInboundRoute	listPaginggroup
getSystemGeneralStatus	getInboundRoute	addPaginggroup
listAccount	updateInboundRoute	getPaginggroup
getSIPAccount	deleteInboundRoute	updatePaginggroup
updateSIPAccount	playPromptByOrg	deletePaginggroup
listVoIPTrunk	listBridgedChannels	MulticastPaging
addSIPTrunk	listUnBridgedChannels	MulticastPagingHangup
getSIPTrunk	Hangup	listIVR
updateSIPTrunk	Callbarge	addIVR
deleteSIPTrunk	listQueue	getIVR

listOutboundRoute	getQueue	updateIVR
addOutboundRoute	updateQueue	deleteIVR
getOutboundRoute	addQueue	cdrapi
updateOutboundRoute	deleteQueue	recapi
deleteOutboundRoute	loginLogoffQueueAgent	pmsapi
listInboundRoute	pauseUnpauseQueueAgent	queueapi
mute	Unmute	hold
unhold	dialExtension	dialOutbound
callTransfer	transferNumberInbound	transferNumberOutbound
dialIVR	dialIVROutbound	dialQueue
dialRinggroup	dialOutboundTwo	listUser
getUser	updateUser	listExtensionGroup
listPinSets	refuseCall	acceptCall
applyChanges	addAnalogTrunk	getAnalogTrunk
listAnalogTrunk	updateAnalogTrunk	deleteAnalogTrunk
addSLATrunk	updateSLATrunk	deleteDigitalTrunk
addDigitalTrunk	getDogitalTrunk	listDigitalTrunk
updateDigitalTrunk		

New API Supported Queries

## Note

There were rare occurrences when the UCM stopped responding to the HTTPS requests. In case that happens, please reboot the UCM.

# **Establishing Connection and User Authentication**

To use HTTPS API users need to connect to the UCM6xxx's IP address with HTTPS/HTTP port which is by default **8089** then authenticate using the configured **Username** and **Password**.

# Challenge

The HTTP authentication is based on challenge/response authentication protocol. The client sends a request for a challenge.

```
{
    "request":{
        "action":"challenge",
        "user":"cdrapi",
        "version":"1.0"
}

{
    "response":{
        "challenge":"0000001652831717"
},
    "status":0
}
```

Key word	Value	Mandatory	Туре	Note
Request Paramet	er			
ıser		Yes	string	API username
Version		No	string	API protocol version. New versions will be available for future interfaces. Different versions will be compatible with one another. This keyword is not mandatory. By default, the latest version will be used. If the requested version cannot be matched, the latest version is used
Successful respo	nse	'	'	
status	0	Yes	int	Successful response
challenge	16-digit Random number	Yes	string	Random string returned by the API used t generate secret key for logging in.
Failed response				'
status		Yes		Please see the error code list for more details.
remain_num		No	int	When obtaining parameter failed, the number of remaining attempts will be returned. After exceeding the remaining number of attempts, this IP and usernam will be added to UCM login blacklist. On UCM web page, the banned IP can be removed.
remain_time		No	int	When an IP address or username has been banned, the ban period will be returned.

# Login

Upon obtaining the challenge string, the client then creates an MD5 hash consisting of the challenge and the user password. By sending a login command with the username and MD5 hash, the client will be able to log in. User information will be returned upon successful login.

```
{
    "request":{
        "action":"login",
        "token":"0faa24433e3c7a9bcfa8000f735305d5",
        "url":"http://192.168.5.199:8070",
        "user":"cdrapi"
    }
}

{
    "response":{
        "cookie":"sid1652831717-1574421057"
    },
    "status":0
}
```

Key word	Value	Mandatory	Туре	Note				
Request Paramete	Request Parameter							
user		Yes	string	API username				
token		No	string	Verification code MD5(\${challenge}\${password})				
url		No	string	The URL used by the 3rd party application to obtain API reports. For example: \${ip}:\${port}/\${path} Note: If this parameter is not included, no API report can be sent.  Note: This feature is not supported yet.				
Successful respon	nse							
status	0	Yes	int	Successful response				
Cookie		Yes	string	Cookie is generated after the 3rd party application successfully connects to the UCM. Excluding challenge and login requests, other API requests need to include the cookie returned by API authentication. Cookie times out in 10 minutes.				
Failed response	1	1	1					
status		Yes		Please see the error code list for more details.				
remain_num		No	int	When obtaining parameter failed, the number of remaining attempts will be returned. After exceeding the remaining number of attempts, this IP and username will be added to UCM login blacklist. On UCM web page, the banned IP can be removed.				
remain_time		No	int	When an IP address or username has been banned, the ban period will be returned.				

# Logout

The user can send a logout request to log out of the API session.

## Request

```
{
    "request":{
        "action":"logout",
        "cookie":"sid930353464-1670323942"
}
```

## o Response

```
{
    "response":{},
    "status":0
```

Key word	Value	Mandatory	Туре	Note				
Request Paramete	Request Parameter							
cookie		No	string	Verification code MD5(\${challenge}\${password})				
Successful respon	nse							
status	0	Yes	int	Successful response				
Failed response								
status		Yes		Please see the error code list for more details.				

# **Data Definition**

## **Request Data**

Action: Define the action needed to be executed on the UCM.

Cookie: Session identifier.

Parameters: Parameters of the defined action.

```
{
    "request":{
        "action":"",
        "cookie":"",
        "options":"" #This field is optional to include parameters
}
```

## **Response Data**

Status: Please refer to the return code table. [Error Return Codes]

# **Operation Methods**

# **Get System Configuration**

## getSystemStatus

The "getSystemStatus" action will return the system information.

#### Request

```
{
    "request":{
        "action":"getSystemStatus",
        "cookie":"sid877877-1574437822"
    }
}
```

#### o Response

```
{
    "response":{
        "idle-time":"14:32:44",
        "part-number":"9660002815A",
        "serial-number":"21AWMJPH70BCA783",
        "system-time":"2019-11-22 17:50:26 UTC+02:00",
        "up-time":"07:33:15"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note				
Request Paramete	Request Parameter							
cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
Successful respon	nse							
status	0	Yes	int	Return successful, status is 0				
part-number		No	string	Product part number				
up-time		No	string	System uptime since bootup				

idle-time		No	string	System idle time			
system-time		No	string	System time			
Failed response	Failed response						
status		yes	int	Please see the error code list for more details.			

getSystemStatus

# get System General Status

The "getSystemGeneralStatus" action will return the version information.

## Request

```
{
    "request":{
        "action":"getSystemGeneralStatus",
        "cookie":"sid877877-1574437822"
}
```

## o Response

```
{
    "response":{
        "base-version":"1.0.20.13",
        "boot-version":"1.0.20.8",
        "core-version":"1.0.20.8",
        "gswave-version":"1.0.20.13",
        "lang-version":"1.0.20.13",
        "product-model":"UCM6202 V1.5A",
        "prog-version":"1.0.20.13",
        "rcvr-version":"1.0.20.8"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note				
Request Parameter								
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
Successful response								
status	0	yes	int	Successful response, status is 0				
product-model		no	string	Product model				
base-version		no	string	Base version				
prog-version		no	string	Program version				

boot-version	no	string	Boot version
core-version	no	string	Core version
rcvr-version	no	string	Recovery version
lang-version	no	string	Lang version
gswave-version	no	string	GSWave version
Failed response			
status	yes	int	Please see the error code list for more details.

 ${\it get System General Status}$ 

# **Extension**

## Add SIPAccountAndUser

Creates a new SIP extension. The addSIPAccountAndUser's supported parameters and values are the same as the existing **updateSIPAccount** command.

## Request

```
"request": {
    "action": "addSIPAccountAndUser",
    "cookie": "sid343971159-1551949394",
    "extension": "1001",
    "max_contacts": "3",
    "permission": "internal",
    "language": "ch",
    "secret": "Abc123456!",
    "vmsecret": "Abc123456!",
    "user_password": "Abc123456!",
    "wave_privilege_id": "0",
    "presence_settings":
         [ {
             "presence_status": "available",
             "cfu_destination_type": "1",
             "cfb_destination_type": "0",
             "cfn_destination_type": "5",
             "cfu_timetype": "0",
             "cfb timetype": "0",
             "cfn_timetype": "0",
             "cfu": "6000",
             "cfn": "6500",
             "cfb": ""
             "presence_status": "away",
             "cfu_destination_type": "5",
             "cfb_destination_type": "0",
             "cfn destination type": "0",
             "cfu timetype": "0",
             "cfb_timetype": "0",
             "cfn_timetype": "0",
             "cfu": "6500",
             "cfn": "",
             "cfb": ""
             "presence_status": "chat",
             "cfb": null,
             "cfn": null,
             "cfu": null,
             "cfb_timetype": 0,
             "cfn_timetype": 0,
             "cfu_timetype": 0,
             "cfb_destination_type": "0",
             "cfn destination type": "0",
             "cfu_destination_type": "0"
            "presence_status": "userdef",
             "cfu_destination_type": "0",
             "cfb_destination_type": "0",
             "cfn_destination_type": "0",
             "cfu_timetype": "0",
             "cfb_timetype": "0",
             "cfn_timetype": "0",
             "cfu": "",
             "cfn": "",
             "cfb": ""
             "presence_status": "unavailable",
             "cfb": null,
             "cfn": null,
             "cfu": null,
             "cfb_timetype": 0,
             "cfn_timetype": 0,
             "cfu_timetype": 0,
             "cfb destination type": "0",
             "cfn_destination_type": "0",
             "cfu_destination_type": "0"
        } ]
}
```

## o Response

```
{
    "response": {
         "need_apply": "yes"
    },
    "status": 0
```

## deleteUser

Delete an existing SIP extension.

Supported parameters:

Key Word	Value	Mandatory	Туре	Note			
Request Paramete	Request Parameters						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
user_name		yes	string	The extension number			

## Request

```
{
    "request":{
        "action":"deleteUser",
        "cookie":"sid1466367100-1946280676",
        "user_name":"1003"
    }
}
```

## o Response

```
{
    "response": {
         "need_apply": "yes"
    },
    "status": 0
}
```

## **listAccount**

The "listAccount" action will return information about the extensions created on the UCM, such as the extension's number, its name etc.

#### Note

The needed information, can be defined in the parameter "options".

## Request

```
{
"request":{
"action":"listAccount",
"cookie":"sid877877-1574437822",
"item_num":"30",
"options":"extension,account_type,fullname,status,addr",
"page":"1",
"sidx":"extension",
"sord":"asc"
#If only the action and the cookie were defined, this will return all the available account
}
}
```

## Response

```
"response":{
"account":[
"account_type": "SIP(WebRTC)",
"addr":"-",
"extension":"1000",
"fullname":null,
"status": "Unavailable"
"account_type": "SIP(WebRTC)",
"addr":"192.168.5.95:62144",
"extension":"1102",
"fullname":null,
"status":"Idle"
},
],
"page":1,
"total_item":2,
"total_page":1
},
"status":0
```

Key Word	Value	Mandatory	Туре	Note				
Request Parameter								
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
page		no	int	Retrieves the extensions on the specified page. This page is based on the value for the <b>item_num</b> parameter. If <b>item_num</b> is unspecified, all items will be on page 1.				
item_num		no	int	Maximum number of extensions to retrieve for the query. If unspecified, all extensions will be returned. This also indicates the number of items per page for the page parameter				
sord	acs, desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.				

sidx		no	string	Sort according to the index.
options	extension, account_type, fullname, out_of_service, status, addr, urgemsg, newms, oldmsg	no	string	Specify the extension details to retrieve and display. Multiple items can be entered and must be separated by commas. If unspecified, all details will be returned.
Successful response:				
status	0	yes	int	Successful response, status is 0
account	A Market Company	yes	Json array	Account List
total_item		yes	int	Total number of items on the list
total_page		yes	int	Total number of items on the list
page	8	yes	int	Page the extensions are on.
extension	(A) Profe	yes	string	Extension number.
account_type	SIP, IAX, FXS, SIP(Web RTC)	no	string	Extension type.
fullname		no	string	Caller ID Name, which consists of first_name, space, and last name.
out_of_service	Yes, no	no	string	Indicates whether the extension is out of service
status	Idle, InUse, Busy, Unavailable, Ringing	no	string	Just "Extension status" is fine.
addr	Well of the state	no	string	IP address and port number of registered extensions. If there are multiple devices under the same account, they will be separated by commas.
urgmsg		no	int	Number of urgent messages.
newmsg		no	int	Number of new messages.
oldmsg		no	int	Number of old messages.
presence_status	unavailable, available, away, chat, dnd, userdef	no	string	Presence status. Only SIP extensions support presence status.
presence_def_script				Custom presence status. If presence_status is userdef, this parameter's value will be used.

. Menit

user_name	no	string	Typically the same as extension number.
email_to_user	no	string	Indicates whether or not to send email notifications to an extension's configured email address if the extension gets updated.
Failed response:			
status	yes	int	Please see the error code list for more details.

listAccount

# getSIPAccount

The "getSIPAccount" action will return information about specific extension.

## Request

```
{
"request":{
  "action":"getSIPAccount",
  "cookie":"sid877877-1574437822",
  "extension":"1000"
}
}
```

## o Response

```
"response":{
    "cti feature privilege":{
        "active_call":"no",
        "callbarge": "no",
        "extension_status": "no",
        "hangup":"no"
    },
    "extension":{
        "account type": "SIP(WebRTC)",
        "alertinfo":null,
        "allow": "ulaw, alaw, gsm, g726, g722, g729, h264, ilbc",
        "authid":null,
        "auto_record":"off",
        "bypass outrt auth": "no",
        "call waiting": "yes",
        "callbarging_monitor":"",
        "cc_agent_policy":"never",
      "cc_max_agents":1,
        "cc max monitors":2,
        "cc_monitor_policy":"never",
        "cidnumber":"1000",
        "custom autoanswer": "no",
        "directmedia": "no",
        "dnd":"no",
        "dnd_timetype":0,
        "dndwhitelist":"",
        "dtmfmode":"rfc2833",
        "emergcidnumber":null,
        "en_ringboth":"no",
        "enable ldap": "yes",
        "enable_qualify": "no",
        "enable_webrtc":"yes",
        "enablehotdesk": "no",
        "encryption":"no",
        "extension":"1000",
        "external_number":null,
        "fax gateway": "no",
        "faxdetect": "no",
        "fullname":null,
        "fwdwhitelist":null,
        "hasvoicemail": "yes",
        "ice_support":"yes",
        "intranet_ip_filter":"no",
        "limitime":null,
        "local_network1":null,
        "local_network10":null,
        "local network2":null,
        "local_network3":null,
        "local_network4":null,
        "local_network5":null,
        "local_network6":null,
        "local_network4":null,
        "local_network5":null,
        "local network6":null,
        "local_network7":null,
        "local network8":null,
        "local_network9":null,
        "max_contacts":1,
        "media_encryption":"auto_dtls",
        "missed_call":"no",
        "mohsuggest": "default",
        "nat":"yes",
        "out of service": "no",
        "permission": "internal",
        "presence_def_script":null,
        "presence status": "available",
        "qualify":1000,
        "qualifyfreq":60,
        "ring_timeout":null,
        "ringboth timetype":0,
        "sca_enable":"no",
        "seamless_transfer_members":"",
        "secret": "pas0",
        "sendtofax":null,
        "skip_auth_timetype":0,
        "skip_vmsecret":"no",
        "specific_ip":null,
        "strategy_ipacl":0,
        "t38 udptl":"no",
        "tel uri": "disabled",
        "use_avpf":"yes",
```

```
"use_callee_dod_on_fm":"no",
            "use_callee_dod_on_fwd_rb":"no",
            "user_outrt_passwd":null,
            "vmsecret":"5333"
"sip_presence_settings":[
            {
                "cfb":null,
                "cfb_destination_type":"0",
                "cfb_timetype":0,
                "cfn":null,
                "cfn_destination_type":"0",
                "cfn_timetype":0,
                "cfu":null,
                "cfu_destination_type":"0",
                "cfu_timetype":0,
                "presence_status":"available"
            },
"sip_presence_settings":[
                "cfb":null,
                "cfb_destination_type":"0",
                "cfb_timetype":0,
                "cfn":null,
                "cfn_destination_type":"0",
                "cfn_timetype":0,
"cfu":null,
                "cfu_destination_type":"0",
                "cfu_timetype":0,
                "presence status": "available"
            },
                "cfb":null,
                "cfb_destination_type":"0",
                "cfb_timetype":0,
                "cfn":null,
                "cfn_destination_type":"0",
                "cfn_timetype":0,
                "cfu":null,
                "cfu_destination_type":"0",
                "cfu_timetype":0,
                "presence_status":"away"
            },
                "cfb":null,
                "cfb_destination_type":"0",
                "cfb_timetype":0,
                "cfn":null,
                "cfn_destination_type":"0",
                "cfn_timetype":0,
"cfu":null,
                "cfu_destination_type":"0",
                "cfu_timetype":0,
                "presence_status":"chat"
            },
                "cfb":null,
                "cfb_destination_type":"0",
                "cfb_timetype":0,
                "cfn":null,
                "cfn destination type":"0",
                "cfn_timetype":0,
                "cfu":null,
                "cfu_destination_type":"0",
                "cfu_timetype":0,
                "presence_status":"unavailable"
            },
                "cfb":null,
                "cfb_destination_type":"0",
                "cfb timetype":0,
                "cfn":null,
                "cfn_destination_type":"0",
                "cfn_timetype":0,
                "cfu":null,
                "cfu_destination_type":"0",
                "cfu_timetype":0,
                "presence_status":"userdef"
        "voicemail":{
            "vm_attach":null,
            "vm reserve":null
```

Note

If you only want to get some parameters regarding a specific extension, users can specify that parameter in the sending request.

Key Word	Value	Mandatory	Туре	Note
Request Parameter	-	. ont		e est
cookie	(A) Target	yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
extension	Existing extension number	yes	string	Specify which extension's configuration to retrieve.
Successful control of the control of		o de le ment		Joseph Jane P.
status	0	yes	int	The response is successful, status is 0.
extension		no	Json obj	The specific configuration of the extension.
account_type	SIP, IAX, FXS, SIP(WebRTC)	no n	string	Extension type.
iullname	Wiek.	no	string	Caller ID Name, which consists of first_name, space, and last name.
nasvoicemail	yes, no	no	string	Indicates whether voicemail is enabled or disabled.
cidnumber		no	string	Caller ID of incoming calls.
secret A Property of the Control of	They	no	string	SIP/IAX password.
vmsecret		no	string	Voicemail password.
skip_vmsecret	Yes, no	no	string	Indicates whether an extension will need to enter a password when dialing into voicemail.
ring_timeout		Pio	int	Extensions ring timeout. If unspecified, the system ring timeout will be used. Default is 60 seconds.
auto_record	all, external, internal, off	no	string	Auto-recording. all: all incoming calls to the extension will be recorded external: only calls to external numbers will

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				recorded. internal: only calls to internal numbers will be recorded. off: No calls will be recorded.
encryption	no, yes, support	no	string	SRTP encryption mode. Set whether to turn on SRTP mode to encrypt RTP streams. Support: Enable but not forced.
faxdetect	no, yes	no	string	Configure the mode of using fax. There are 2 available settings. The default is "no".  no: Disable fax related features.  yes (Fax detection): Fax signals from this user or the trunk can be detected during a call. The received fax will be sent to the email address set for the user. If the user's email address is not configured, the fax will be sent to the default email address set on the fax page.
sendtofax	yes, no	no	string	Indicates whether fax will also be sent to the extension's configured email address when receiving a fax call.
strategy_ipacl	0,1,2	no	int	Indicates the device's ACL policy.  0(Allow All): Any IP address can register to this extension.  1(Local Network): Only IP addresses in the configured subnets can register to this extension. Devices on the UCM's subnet is allowed by default. Up to 10 subnets can be added.  2 (Special IP address): This option seems to have been merged with 1 (Local Network) in 1.0.20.x
local_network1		no	string	local_network1-10 are the subnets that are allowed to register to the extension when 1 is configured as the value for strategy_ipacl.
local_network2		no	string	
local_network3		no	string	
local_network4		no	string	
local_network5		no	string	
local_network6		no	string	
local_network7		no	string	
local_network8		no	string	
local_network9		no	string	
local_network10		no	string	

specific_ip		no	string	When the policy is 2, that is, Special IP Address, Format is xxx.xxx.xxx or xxxx:xxxx:xxxx:xxxx:xxxx.xxx.xxx.xxx.xx
allow	ulaw, alaw, gsm, g726, g722, g729, h264, ilbc, g726aal2, adpcm, g723, h263, h263p, vp8, opus, h265, rtx	no	string	The extension's supported codecs. Several codecs can be configured for a single extension.
dnd	yes, no	no	string	Indicates DND status.  If set to yes, all calls will be ignored, and the extension's call forwarding rules will not take effect
dnd_timetype	0,1,2,3,4,5,6,8	no	int	The time conditions where DND status will be enabled.  0: All Time 1: Office Time 2: Out of Office Time 3: Holiday 4: Out of Holiday 5: Out of office time or holiday 6: Specific time 8: Office time and out of holiday
permission	internal, internal- local, internal- local-national, internal-local- national- international	no	string	Outbound call permissions of the extension. internal: Internal internal-local: Local internal-local-national: Nationwide internal-local-national-international: International
nat	yes, no	no	string	Indicates whether the extension is behind a NAT. If the UCM is using a public IP address to communicate with devices behind NAT, one-way audio issues may occur if this option is not enabled, NAT is not configured properly, or if SIP/RTP ports are not supported by the firewall.
bypass_outrt_auth	no, yes, bytime	no	string	Indicates whether the extension can skip password authentication when dialing out of a trunk yes: Users will not need to enter a password when dialing out of a trunk. bytime: Users will not need to enter a password when dialing out of a trunk only during the specified time condition.
skip_auth_timetype	0,1,2,3,4,5,6,8	no	int	Time condition where the extension will be able to dial out of a trunk without needing to enter a password.  0: All Time 1: Office Time 2: Out of Office Time 3: Holiday 4: Out of Holiday 5: Out of office time or holiday 6: Specific time

				8: Office time and out of holiday
t38_udptl	yes, no	no	string	Indicates whether T.38 support is toggled on or off
directmedia	yes, no	no	string	Indicates whether direct media is enabled or not.  No: The PBX will route RTP media streams from SIP endpoints through itself.  Yes: The PBX will attempt to redirect RTP media streams so that they are only between caller and callee. Note: It is not always possible for the UCM to negotiate endpoint-to endpoint media routing.
dtmfmode	rfc4733, info, inband, auto	no	string	Indicates the DTMF signaling sent from the extension Info: Signaling is transmitted through SIP messages. Inband: Signaling is transmitted in audio streams. Requires PCMU and PCMA codec support. RFC4733: Signaling is transmitted as audio but is encoded separately from the audio stream. Auto: Selects the signaling to use based on negotiation. Signaling is preferred in the following priority: RFC4733, Inband, Info
enable_qualify	yes, no	no	string	Indicates whether keep-alive is enabled for this extension.  Yes: The PBX periodically sends SIP OPTION messages to the extension endpoint to monitor and maintain UCM's connection to the endpoint.
qualifyfreq		no	int	Keep-alive Frequency. Indicates how often keep-alive messages are sent to this extension's endpoints.
authid		no	string	Authentication ID.  This is the SIP service subscriber's ID used for authentication. If not configured, the Extension Number will be used for authentication.
tel_uri	disabled, user_phone, enabled	no	string	TEL URI. Enabled: TEL URI and Remove OBP from Route cannot be enabled at the same time. "Tel:" will be used instead of "SIP:" in the SIP request. User_Phone: If the phone has an assigned PSTN telephone number, this field should be set. A "User=Phone" parameter will then be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number.
enablehotdesk	no, yes	no	string	Indicates whether hotdesking is enabled for this extension.

				Yes: SIP Password will accept only alphanumeric characters; Extension will be used for AuthID.
user_outrt_passwd		no	string	Dial Trunk Password Password that must be entered by the extension to dial out.
out_of_service	yes, no	no	string	Indicates whether the "Disable this Extension" option is toggled on or off for this extension.  Yes: The extension is disabled.  No: The extension is enabled.
mohsuggest	default, ringbacktone_def ault,	no	string	Music on Hold. Indicates the Music on Hold playlist to use when putting parties on hold.
en_ringboth	no, yes	no	string	Ring Simultaneously: Indicates whether the "Ring Simultaneously" option is toggled on or off for this extension  If enabled, both this extension and the configured external number will be rung at the same time. If the calling the external number requires the use of a register trunk, the register trunk's number will be displayed to the caller. Failover trunks cannot be used for Ring Simultaneously calls.
external_number		no	string	The external number configured for Ring Simultaneously. Hyphens (-) are ignored
use_callee_dod_on_ fwd_rb	no, yes	no	string	Indicates whether the callee's DOD number will be used as CID for forwarded calls or Ring Simultaneously calls
use_callee_dod_on_ fm	no, yes	no	string	Use Callee DOD for Follow Me Indicates whether to the callee's DOD number will be used as CID for Follow Me calls.
ringboth_timetype	0,1,2,3,4,5,6,8	no	int	Time Condition for Ring Simultaneously The time conditions when Ring Simultaneously will be used 0: All Time 1: Office Time 2: Out of Office Time 3: Holiday 4: Out of Holiday 5: Out of office time or holiday 6: Specific time 8: Office time and out of holiday
enable_ldap	yes, no	no	string	Enable LDAP Indicates whether this extension can be added to LDAP phonebooks.
max_contacts		no	int	Concurrent Registrations

				The maximum allowed number of endpoints that can register to this extension. Supported values: 1-10
custom_autoanswer	no, yes	no	string	Custom Call-info for Auto Answer Indicates whether the extension supports auto-answer when denoted in Call-info and Alert-info headers.
sca_enable	no, yes	no	string	Enable SCA Indicates whether or not SCA is enabled for the extension
call_waiting	yes, no	no	string	Call Waiting Indicates whether calls can be made to the extension while it is already in a call. If disabled, CC service and Call Forward Busy will not work.
emergcidnumber		no	string	Emergency Calls CID  CallerID number that will be used when calling out and receiving direct callbacks.
enable_webrtc	yes, no	no	string	Enable WebRTC Support Indicates whether this extension supports WebRTC registration and calling.
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2 Bellcore-dr3, Bellcore-dr4, Bellcore-dr5, custom			Alert-info Indicates the alert-info header that will be used in the extension's INVITE requests to specify a ring tone to be used by the UAS.
limitime		no	int	Maximum Call Duration Indicates the maximum duration of this extension's calls. The default value 0 means no limit.
dndwhitelist		no	string	DND whitelist Displays the numbers that can call this extension even if it has DND enabled. Multiple numbers are separated by commas.
fwdwhitelist		no	string	Forward Whitelist Displays the numbers that will ignore this extension's call forwarding rules when calling in. Multiple numbers are separated by commas
callbarging_monitor		no	string	Allow call-barging Displays the extensions that can barge in and monitor this extensions' calls via feature code.

seamless_transfer_ members		no	string	Allowed to seamless transfer Displays the extensions that can seamlessly transfer to this extension.
sip_presence_settin gs			Json array	The specific configuration content of the online status of the SIP extension. The specific content needs to specify which state the presence_status is.  "sip_presence_settings": [ {  "presence_status": "available",  "cfb":"6000",  "cfn": null,  "cfu": null,  "cfb_timetype": 0,  "cfu_timetype": 0,  "cfu_destination_type": "0",  "cfu_destination_type": "0",  "cfu": null,  "cfb": "12345",  "cfu": null,  "cfb_timetype": 0,  "cfb_destination_type": "0",  "cfu-destination_type": "0",  "cfu": null,  "cfb": "12345",  "cfu": null,  "cfb_timetype": 0,  "cfn_destination_type": "0",  "cfn_destination_type": "0",  "cfu_destination_type": "0",
presence_status	available, away, chat, dnd, userdef, unavailable	no	string	Presence status of this extension. Defau is Available.
cfb		no	string	Call Forward Busy (CFB) destination. Callers will be redirected to this number i the extension is busy.
cfn		no	string	Call Forward No Answer (CFNA)  Destination  Callers will be redirected to this number i calls to the extension are not answered before ring timeout.  Note: If unspecified, this feature is disabled.
cfu		no	string	Call Forward Unconditional (CFU) destination. Callers will always be redirected to this number.
cfb_timetype	0,1,2,3,4,5,6,8	no	string	Call forward busy based on this time condition. CFB will be active only during selected time condition.  0: All Time  1: Office Time  2: Out of Office Time  3: Holiday

				<ul><li>4: Out of Holiday</li><li>5: Out of office time or holiday</li><li>6: Specific time</li><li>8: Office time and out of holiday</li></ul>
cfn_timetype	0,1,2,3,4,5,6,8	no	string	Call forward no answer based on this time condition. CFNA will be active only during the selected time condition.  0: All Time  1: Office Time  2: Out of Office Time  3: Holiday  4: Out of Holiday  5: Out of office time or holiday  6: Specific time
cfu_timetype	0,1,2,3,4,5,6,8	no	string	Call forward unconditional based on this time condition. CFU will be active only during the selected time condition.  0: All Time 1: Office Time 2: Out of Office Time 3: Holiday 4: Out of Holiday 5: Out of office time or holiday 6: Specific time 8: Office time and out of holiday
cfb_destination_typ e	0,1,2,3,4,5,6,8			Extension type of the CFB destination. If unspecified, CFB will be disabled.0: None 1: Extension 2: Custom Number 3: Voicemail 4: Ring Group 5: Queues 6: Voicemail Group
cfn_destination_typ e	0,1,2,3,4,5,6,8			Extension type of the CFNA destination. If unspecified, CFNA will be disabled.  0: None  1: Extension  2: Custom Number  3: Voicemail  4: Ring Group  5: Queues  6: Voicemail Group
cfu_destination_typ e	0,1,2,3,4,5,6,8			Extension type of the CFU destination. If unspecified, CFU will be disabled  0: None  1: Extension  2: Custom Number  3: Voicemail  4: Ring Group  5: Queues  6: Voicemail Group
voicemail		no	Json obj	Specific Configuration of voicemail. "voicemail": {   "vm_attach": null,   "vm_reserve": null }

vm_attach	NULL, yes, no	no	string	Send voicemail to email NULL: "Default". Global voicemail settings in the Voicemail page will be used
vm_reserve	NULL, yes, no	no	string	Keep Voicemail after Emailing Only applicable when either condition is fulfilled:  1. Edit Extension→Send Voicemail to Email is enabled.  2. Voicemail→Voicemail Email Settings→Send Voicemail to Email is enabled and Edit Extension→Send Voicemail to Email is set to "Default". Global voicemail settings in the Voicemail page will be used. "Default". Global voicemail settings in the Voicemail page will be used.
Failed response				
status		yes	int	Please see the error code list for more details.

getSIPAccount

# update SIPAccount

This action will allow users to update an existing SIP account.

## o Request

```
{
    "request":{
        "action":"updateSIPAccount",
        "cookie":"sid719338887-1574671289",
        "extension":"1000",
        "permission":"internal"
}
```

## Response

```
{
    "response":{
        "extension":{
            "alertinfo":null,
            "extension":"1000"
        }
    },
    "status":0
```

## Note

Editing presence configuration requires sending the entire json list of sip\_presence\_settings. Make sure to specify the presence status when updating presence settings.

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Request Parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
extension	Required. 2- 18 digits		string	Specify which extension's configuration to retrieve.
hasvoicemail	yes, no	no	string	Indicates whether voicemail is enabled or disabled.
cidnumber		no	string	Caller ID of incoming calls.
secret		no	string	SIP/IAX password.
vmsecret		no	string	Voicemail password.
skip_vmsecret	Yes, no	no	string	Indicates whether an extension will need to enter a password when dialing into voicemail.
ring_timeout	Value between 3 and 600. Can be set to "null". When set to null, global settings will be used.	no	int	Ring Timeout when set to NULL, the system default ring timeout is used.
auto_record	no, yes, support		string	Auto-recording.  all: all incoming calls to the extension will be recorded external: only calls to external numbers will be recorded.  internal: only calls to internal numbers will be recorded.  off: No calls will be recorded.
encryption			string	SRTP encryption mode. Set whether to turn on SRTP mode to encrypt RTP streams. Support: Enable but not forced.
faxdetect			string	Configure the mode of using fax. There are 2 available settings. The default is "no".  no: Disable fax related features.  yes (Fax detection): Fax signals from this user or the trunk can be detected during a call. The received fax will be sent to the email address set for the user. If the user's email address is not configured, the fax will be sent to the default email address set on the fax page.
sendtofax	yes, no	no	string	Indicates whether fax will also be sent to the extension's configured email address when receiving a fax call.
strategy_ipacl	0,1,2	no	int	Indicates the device's ACL policy.  0(Allow All): Any IP address can register to this extension.  1(Local Network): Only IP addresses in the configured subnets can register to this extension. Devices on the UCM's subnet is allowed by default. Up to 10 subnets can be added.

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				2 (Special IP address): This option seems to have been merged with 1 (Local Network) in 1.0.20.x
local_network1		no	string	local_network1-10 are the subnets that are allowed to register to the extension when 1 is configured as the value for <b>strategy_ipacl</b> .
local_network2		no	string	
local_network3		no	string	
local_network4		no	string	
local_network5		no	string	
local_network6		no	string	
local_network7		no	string	
local_network8		no	string	
local_network9		no	string	
local_network10		no	string	
specific_ip	IP address	no	string	When the policy is 2, that is, Special IP Address, Format is xxx.xxx.xxx or xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxx
allow	ulaw,alaw,gsm, g726,g722,g72 9,h264,ilbc,g72 6aal2,adpcm,g 723,h263,h263 p,vp8,opus,h26 5,rtx	no	string	The extension's supported codecs. Several codecs can be configured for a single extension.
dnd	yes, no	no	string	Do Not Disturb. yes: All calls will be ignored, and the call forward unconditional/ no answer/ busy of the extension will not take effect.
dnd_timetype	0,1,2,3,4,5,6,8	no	int	The time conditions where DND status will be enabled.  0: All Time  1: Office Time  2: Out of Office Time  3: Holiday  4: Out of Holiday  5: Out of office time or holiday  6: Specific time  8: Office time and out of holiday
permission	internal, internal-local, internal-local- national, internal-local- national- international	no	string	Select outbound permission. internal: internal internal-local: local internal-local-national: nationwide internal-local-national-international: international

nat National Property of the P	yes, no	no Andreas	string	NAT is used when UCM uses public IP and communicates with devices hidden behind a NAT network, such as a broadband router. You may encounter one-way audio problem. This type of problem is often associated with NAT configuration or SIP and RTP ports supported by the firewall.
bypass_outrt_auth	no, yes, bytime	no	string	Skip trunk authentication. yes: When dialing an external line, the user does not need to enter a password; bytime: dial an external line in the set time condition, the user does not need to enter a password.
skip_auth_timetype	0,1,2,3,4,5,6,8	no no	int	Time condition where the extension will be able to dial out of a trunk without needing to enter a password.  0: All Time 1: Office Time 2: Out of Office Time 3: Holiday 4: Out of Holiday 5: Out of office time or holiday 6: Specific time 8: Office time and out of holiday
t38_udptl	yes, no	no	string	Whether to support T.38 UDPTL.
directmedia	yes, no	no	string	Whether to enable direct media.  No: the PBX will route the media streams from SIP endpoints through itself.  Yes: the PBX will attempt to redirect the RTP media streams to bypass the PBX and to go directly between caller and callee. Note: It is not always possible for the PBX to negotiate endpoint-to-endpoint media routing.
dtmfmode State of the state of	rfc4733, info, inband, auto	no	string	Default mode of sending DTMF signal.  The DTMF signal is carried by the info method of SIP signaling. Inband: Requires 64kbit codec PCMU and PCMA. Auto: Adaptive preference is for RFC2833, followed by inband.
enable_qualify	yes, no	no	string	Enable keeping-alive. Yes: The PBX periodically sends SIP OPTION signaling to detect if the host is online
qualifyfreq	Required. Set a value between 1 and 3600.	no	int	Keep-alive Frequency. When the host is on, set the interval of sending keep-alive messages measured in seconds.
authid	Up to 32 characters excluding space., ;;?"() <>@,\/[]={}.	no no	string	Authentication ID. This is the SIP service subscriber's ID used for authentication. If not configured, the Extension Number will be used for authentication.
tel_uri	disabled, user_phone, enabled	no	string	TEL URI. Enabled: TEL URI and Remove OBP from Route cannot be enabled at the same time. "Tel:" will be used instead of "SIP:" in the SIP request. User_Phone: If the phone has an assigned PSTN telephone number, this field should be set. A "User=Phone" parameter
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				will then be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number.
enablehotdesk	no, yes	no	string	Support Hot-desking Mode yes: SIP Password will accept only alphanumeric characters; Extension will be used for AuthID.
user_outrt_passwd	4-10 digits	no	string	Dial Trunk Password  Configure personal password when making outbound  calls.
out_of_service	yes, no	no	string	Whether to disable this extension yes: disable no: enable
mohsuggest	Required: default, ringbacktone_ default, MoH playlist name, etc	no	string	Music on Hold.  Specify which Music on Hold class to suggest to the bridged channel when putting them on hold.
en_ringboth	no, yes	no	string	Ring Simultaneously If you want the extension and external number to ring simultaneously, check this box. If you use register trunk for outbound calls, the caller will display the registered number. The outbound call will use only the main trunk. The failover trunk will not be used.
external_number	and special characters +-  *#		string	Set the external number for Ring Simultaneously. "-" is the connection character and will be ignored.
use_callee_dod_on_fwd_rb			string yes: Use the callee's DOD number as caller! Forwarding or Ring Simultaneously calls.	yes: Use the callee's DOD number as callerID on Outgoing Forwarding or Ring Simultaneously calls.
use_callee_dod_on_fm	no, yes	no	string	Use Callee DOD for Follow Me Use the callee DOD number as CID if configured Follow Me numbers are external numbers.
ringboth_timetype	0,1,2,3,4,5,6,8	no	int	Time Condition for Ring Simultaneously The time conditions when Ring Simultaneously will be used 0: All Time 1: Office Time 2: Out of Office Time 3: Holiday 4: Out of Holiday 5: Out of office time or holiday 6: Specific time 8: Office time and out of holiday
enable_ldap	yes, no	no	string	Enable LDAP yes: If enabled, the extension will be added to LDAP Phonebook PBX lists.
max_contacts	Value between 1 and 10	no	int	Concurrent Registrations The maximum endpoints which can be registered to this extension. Value: 1-10.

custom_autoanswer	no, yes	no	string	Custom Call-info for Auto Answer yes: If checked, the invite message sent to the extension will contain a Call-info header to indicate auto answer.
sca_enable	no, yes	no de la companya de	string	Enable SCA.
call_waiting	yes, no	no	string	Call waiting yes: Allows calls to the extension even when it is already i a call. This only works if the caller is directly dialing the extension. If disabled, the CC service and busy in-call forward will not work.
emergcidnumber	2-32 alphanumeric characters	no de marit	string	Emergency Calls CID CallerID number that will be used when calling out and receiving direct callbacks.
enable_webrtc	yes, no	no	string	Enable WebRTC Support Enable registration and call from WebRTC.
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2 Bellcore-dr3, Bellcore-dr4, Bellcore-dr5, custom	To the late of the		Alert-info When present in an INVITE request, the Alert-info header field specifies an alternative ring tone to the UAS.
imitime	Value between 0 and 86400	no de mari	int	Maximum Call Duration The maximum call duration (in seconds). The default value of means no limit.
dndwhitelist		no	string	DND whitelist  Multiple numbers are supported and separated by commas.
fwdwhitelist		no it	string	Forward Whitelist Set extension numbers, multiple can be separated by commas. Calls from users in the forward whitelist will no be forwarded.
callbarging_monitor		no	string	Set up Allow call-barging list. Members of the list can spy on this extension via feature codes. Multiple extensions can be set, separated by commas.
seamless_transfer_members		no	string	Set up Allow to seamless transfer list. Members of the list can seamlessly transfer via feature code. Multiple extensions can be set, separated by commas.
sip_presence_settings		TOTA	Json array	The specific configuration content of the online status of the SIP extension. The specific content needs to specify which state the presence_status is.  "sip_presence_settings": [{     "presence_status": "available",     "cfb":"6000",     "cfn": null,     "cfu": null,
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				"cfb_timetype": 1,     "cfn_timetype": 0,     "cfu_timetype": 0,     "cfb_destination_type": "0",     "cfn_destination_type": "0",     "cfu_destination_type": "0" }, {     "presence_status": "unavailable",     "cfb": null,     "cfn": "12345",     "cfu": null,     "cfb_timetype": 0,     "cfn_timetype": 2,     "cfu_timetype": 0,     "cfb_destination_type": "0",     "cfn_destination_type": "0",     "cfu_destination_type": "0" }] When available, cfb to extension 6000; When unavailable, cfn to custom extension 12345.
presence_status	available, away, chat, dnd, userdef, unavailable	no	string	Set the presence status of this extension. Default is Available. To set the transfer destination, configure call transfer.
cfb		no	string	Configure the target number to be forwarded to for Call Forward Busy(CFB). Incoming calls during busy time will be forwarded to the entered extension. Corresponds to the extension number under the cfb_destination_type type.
cfn		no	string	Configure the target number to be forwarded to for Call Forward No Answer(CFN). Incoming calls that are not answered after ring timeout will be forwarded to the entered extension. Note: If not specified, this feature is disabled. Corresponds to the extension number under the cfn_destination_type type.
cfu		no	string	Configure the target number to be forwarded to for Call Forward Unconditional(CFU). All incoming calls will be forwarded to the entered extension unconditionally. Corresponds to the extension number under the cfu_destination_type type.
cfb_timetype	0,1,2,3,4,5,6,8	no	string	Call forward busy based on this time condition. CFB will be active only during the selected time condition.  0: All Time  1: Office Time  2: Out of Office Time  3: Holiday  4: Out of Holiday  5: Out of office time or holiday  6: Specific time  8: Office time and out of holiday
cfn_timetype	0,1,2,3,4,5,6,8	no	string	Call forward no answer based on this time condition. CFNA will be active only during the selected time condition.  0: All Time  1: Office Time  2: Out of Office Time  3: Holiday

				4: Out of Holiday
				5: Out of office time or holiday 6: Specific time
cfu_timetype	0,1,2,3,4,5,6,8	no	string	Call forward unconditional based on this time condition. CFU will be active only during the selected time condition. 0: All Time 1: Office Time 2: Out of Office Time 3: Holiday 4: Out of Holiday 5: Out of office time or holiday 6: Specific time 8: Office time and out of holiday
cfb_destination_type	0,1,2,3,4,5,6			Extension type of the CFB destination. If unspecified, CFB will be disabled.0: None  1: Extension  2: Custom Number  3: Voicemail  4: Ring Group  5: Queues  6: Voicemail Group
cfn_destination_type	0,1,2,3,4,5,6			Extension type of the CFNA destination. If unspecified, CFNA will be disabled.  0: None  1: Extension  2: Custom Number  3: Voicemail  4: Ring Group  5: Queues  6: Voicemail Group
cfu_destination_type	0,1,2,3,4,5,6			Extension type of the CFU destination. If unspecified, CFU will be disabled 0: None 1: Extension 2: Custom Number 3: Voicemail 4: Ring Group 5: Queues 6: Voicemail Group
vm_attach	yes, no If set to NULL, global setting will be used.	no	string	Send voicemail to email  NULL: the global setting will be used.
vm_reserve	Yes, no, NULL If set to NULL, global setting will be used.	no	string	Keep Voicemail after Emailing Only applies if extension-level is enabled or global Send Voicemail to Email is enabled and extension-level is default. NULL: the global setting will be used.
Successful response				
status	0	yes	int	Successful response, status is 0
Failed response				

status yes int Please see the error code list for more details.
---

updateSIPAccount

## Wave

## cleanTerminalChatInformation

The "cleanTerminalChatInformation" action allows the user to clear the chat history of the user's Wave client.

## Request

```
{
    "request":{
        "action":"cleanTerminalChatInformation",
        "cookie":"sid1602522965-14864168234",
        "extension":"1007"
    }
}
```

## Response

## natTerminalChatInformation Request Parameters

Name	Supported Values	Required	Value Type	Comments
cookie		Yes	String	Cookie value is obtained after logging in via the login command. If the cookie is invalid, error code -6 will be returned.
extension		Yes	Integer	User's extension number

## chatTerminalChatInformation Request Responses

If the updateUser request is successful, the following will appear:

Parameter Name	Supported Values	Value Type	Comments
status	0	Integer	Success. Status is 0.
need_apply	yes,no	String	Whether changes need to be applied to take effect.

If the cleanTerminalChatInformation request fails, the following will appear:

Parameter Name	<b>Supported Values</b>	Value Type	Comments
status		Integer	Error code will appear. Please refer to the list of error codes for more details.

## getSIPAccountQR

## **Example Request**

```
"request":{
    "extension":"1000",
    "action":"getSIPAccountQR"
}
```

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#### **Example Response:**

```
{
    "response":{
```

"qr\_base":"iVBORw0KGgoAAAANSUhEUgAAAKsAAACrAQMAAAAjJv5aAAAABlBMVEUAAAD///+12Z/dAAAAARST1P//8i138cAAAAJcEhZcwAACXIAAASSAdLdfvwAA
ALDSURBVEiJ5Zc/rqQwDMaNUqSDCyDlGulyJbgAfy4AV6LLNSLlAkmXAuH9Msy894otlmirXYQofjMKY/vzZw/xby/6v3Eimo/QHbzZvmOTD2rkOPM5OBpszEVdOjQeR
I6PfnL9zDTiVM+rp/ERHixN74R3dkXtT/HMZveBNM2F+RmuUZ6TPeeDE54/g/9jjHyPvv++v8sgwLgua/ajla518YcgBDhRTxTzgSh5P0yycZfjzIrZbD2eDkmKG31SJ
cHsw3yYFf12JnsatFof4Mr1pVX2EDLeYPYHuECDiK8nPJn1hU60L127oZJGpkNXGyKucozK47wGfUm8ct/4L0F1sF0ZY4b0yjk5xf50lQxfDvGpRGpBfIXIno0c86vyF
4WmhJkR5UeaEvw6myZouf7GHn1e5ZgLdHdWq2OqplVLJ8bJUWsD1r9QaO/OkGOGAC3kExdLHaKkd/AyjExrNARO5d0j8W+HEOHMJmmFQGcP40TZz87H7PuB4qbhWKG10
KDKD3DB2eHlmgHWuZJ1cpwsBgj6+yRtNofWMOsDrcP6csEEYBQN3zJZjjFOZw/rNZDwBiUWxU8w/Bu1CkS3Q9walGGAwSHK6hNQMRp0lWouC815lqq+RJhvbyGLMFhTp
WfYn63FSzBsxTg52ANcCuMIc0Bt9rZeGYbBtK72JXaf+aCB+1GO2f0iMUMgZNgMBpphoc51BatrC+4W3qlv1xTiAtFBPhgg2H2gwbcgRPhysAeaCIFC0dTqvnmAiRdHX
YlLXcRULnf1ZTjps9UYjNWxXq7Zd3KMK2GxPeBVGCbxy6tEOL32lN2f15Ro60bWyDH2wUmjHdHi0A68yuQHGOstVpXqVQgXDnr3pRiPJSYk3tbpmv1Hg1KMJPm6reRDc
R3UcsywhzC8PHiwJr0HowzXfGPx0fXzFvb97gYZ/iv/vP4p/AvzqV1YIWFVRAAAAABJRU5ErkJggg=="

```
},
"status": 0
```

31,	Name	Supported Values	Required	Value Type	Comments
	cookie		Yes	String	Cookie value is obtained after logging in via the login command. If the cookie is invalid, error code -6 will be returned.
	extension		Yes	Integer	User's extension number

the getSIPAccountQR request is successful, the following will appear:

er	Parameter Name	Supported Values	Value Type	Comments  Success States in 0
	status	0	Integer	Success. Status is 0.
	qr_base	В	Base64 string	To turn this string into a QR code, there are various tools available to convert Base64 strings to images. For example, on linux, the terminal command <b>base64 -d aa.txt &gt; test.jpg</b> can convert the string to a QR code image.

#### Trunk

## **listVoIPTrunk**

The "listVoIPTrunk" action will allow users to get information about the existing SIP trunk, such as the trunk's name, its IP address etc.

#### Note

The needed information, can be defined in the parameter "options". Otherwise all the information will be returned.

#### Request

```
"request":{
    "action":"listVoIPTrunk",
    "cookie":"sid719338887-1574671289",
    "options":"trunk_index,trunk_name,trunk_type"
}
```

```
"response":{
   "page":1,
"total_item":3,
   "total_page":1,
   "voip_trunk":[
       {
            "trunk_index":2,
            "trunk_name":"test",
            "trunk_type":"peer"
            "trunk_index":3,
            "trunk_name":"test2",
            "trunk_type":"peer"
        },
            "trunk_index":4,
            "trunk_name":"test12",
            "trunk_type":"peer"
   ]
"status":0
```

Key Word	Value	Mandatory	Туре	Note			
Request Parame	Request Parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
Page		no	int	Get extension list by page number.			
item_num		no	int	Number of trunks to return for the request. If unspecified, all trunks will be returned.			
Sord	acs,desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.			
Sidx		no	string	Sort by trunk index. This is based on trunk creation date.			
options	trunk_index, trunk_name, host, trunk_type, username, technology, Idap_sync_ena ble, trunks.out_of_ service	no	string	Specify the information to return. Multiple options can be selected and must be separated by commas. If unspecified, all the listed information will be returned.			

Successful response				
status	0	yes	int	Successful response, status is 0
voip_trunk		yes	Json array	VOIP trunk list
total_item		yes	int	Total number of items that were returned.
total_page		yes	int	Total number of pages in the list.
page		yes	int	What page is on.
trunk_index		no	string	Trunk ID
trunk_name		no	string	Trunk name
Host		no	string	Host
trunk_type	peer, register	no	string	Trunk type Peer trunk and register trunk
username		no	string	Username of register trunk. NULL for peer trunk.
Failed response				
status		yes	int	Please see the error code list for more details.

listVoIPTrunk

## addSIPTrunk

The "addSIPTrunk" action will allow users to create SIP trunks.

#### Request

```
{
    "request":{
        "action":"addSIPTrunk",
        "cookie":"sid719338887-1574671289",
        "host":"192.168.5.222",
        "trunk_name":"GStest",
        "trunk_type":"peer"
    }
}
```

```
{
    "response":{
        "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note				
Request parameter	Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
trunk_name		yes	string	Trunk name				
Host		yes	string	Host				
trunk_type	Peer, register	yes	string	Trunk type				
Username	Up to 64 characters	yes	string	Configure the username to authenticate with the VoIP provider.				
Secret				Configure the password to authenticate with the VoIP provider. Required for register trunks.				
The rest options are Same as updateSIPTrunk								
Successful response								
Status	0	yes	int	The response is successful, status is 0				
Failed response								
Status		yes	int	Please see the error code list for more details.				

addSIPTrunk

# getSIPTrunk

The "getSIPTrunk" will allow users to get information about a specific trunk.

# Request

```
{
    "request":{
        "action":"getSIPTrunk",
        "cookie":"sid23597213-1574672527",
        "trunk":"3"
    }
}
```

```
"response":{
    "trunk":{
        "allow": "ulaw, alaw, gsm, g726, g729, ilbc",
        "allow_outgoing_calls_if_reg_failed":"yes",
        "auth_trunk": "no",
        "authid":null,
        "auto_recording":"no",
        "cc_agent_policy":"never",
        "cc max agents":5,
        "cc_max_monitors":5,
        "cc_monitor_policy": "never",
        "cidname":null,
        "cidnumber":null,
        "dialin direct": "no",
        "did mode": "request-line",
        "dtmfmode":null,
        "enable_qualify":"no",
        "encryption":"no",
        "fromdomain":null,
        "fromuser":null,
        "host":"1.2.55.4",
        "keepcid": "no",
        "keeporgcid":"no",
        "ldap_custom_prefix":null,
        "ldap_default_outrt":null,
        "ldap_default_outrt_prefix":null,
        "ldap_sync_enable":"no",
        "ldap_sync_passwd":null,
        "ldap_sync_port":null,
        "nat":"no",
        "need register": "no",
        "out_maxchans":0,
        "out_of_service":"no",
        "outboundproxy":null,
        "pai number":null,
        "passthrough_pai":"yes",
        "qualifyfreq":60,
        "rmv_obp_from_route":"no",
        "secret":null,
        "send ppi": "no",
        "status":"Unmonitored",
        "tel_uri":"disabled",
        "transport": "udp",
        "trunk index":3,
        "trunk_name":"test2",
        "trunk_type":"peer",
        "uri_sip_or_sips":0,
        "use_dod_as_from_name":"no",
        "use_dod_in_ppi":"no",
        "use_for_sfu_conf":"no",
        "use_origcid_in_ppi":"no",
        "username":null
"status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request Parameter						
cookie		yes	string	Returned value after login. All requests must include this value.  If no cookie is included, error code -6 will be returned.		
trunk		yes	string	Retrieves the configuration of the specified trunk. Please enter the trunk ID.		
Successful response						
status	0	yes	int	The response is successful, status is 0.		

trunk		yes	Json, obj	Specific Trunk configuration.
trunk_index		yes	string	Trunk id.
allow	ulaw,alaw,gs m,g726,g729 ,ilbc,g722,g7 26aal2,adpc m,g723,h263 ,h263p,h264, h265,vp8,op us,rtx.	no	string	The trunk's supported codecs
allow_outgoing_calls _if_reg_failed	yes, no	no	string	Whether outgoing calls are allowed the trunk is unable to register successfully.
auth_trunk	yes, no	no	string	Authenticate trunk. If enabled, UCM will respond to incoming calls with 401 message to authenticate the trunk.
authid		no	string	Authenticate ID  This is the SIP service subscriber's ID used for authentication not configured, the Extension Number will be used for authentication.
auto_recording	no, yes	no	string	Auto record.
cc_agent_policy	native, never	no	string	To enable CC service Control together with cc_monitor_policy. CC service is enabled if both cc_agent_policy and cc_monitory_policy are native. It is disabled if both are set to never.
cc_max_agents		по	int	The maximum number of CCSS agents that may be allocated this channel. In other words, this number is the maximum number of CC requests this channel is allowed to make.
cc_max_monitors		no	int	The maximum number of monitor structures which may be created for this device. In other words, this number tells how many callers may request CC services for a specific device at one time.
cc_monitor_policy	native, never	no	string	To enable CC service  Control together with cc_agent_policy.  CC service is enabled if both cc_agent_policy and  cc_monitory_policy are native. It is disabled if both are set to never.
cidname		no	string	Caller ID Name CID name for this trunk that will be used if the caller does not have CID name configured.
cidnumber		no	string	Caller ID  Number that the trunk will try to use when making outbound calls.  CID priority from highest to lowest is as follows:  From User (register trunk only) > Inbound Call CID (enable usi remote CID) > Trunk CID/register trunk username (Keep Trunk CID enabled) > DOD CID(with correspond DOD configuration)

				Extension CID > Register Trunk Username (for register trunk only, Keep Trunk CID disabled) > Global Outbound CID.
				Note: Certain providers may ignore this CID.
dialin_direct	no, yes	no	string	Direct callback Allows external numbers the option to get directed to the extension that last called them.
did_mode	request-line, to-header	no	string	Direct callback Allows external numbers the option to get directed to the extension that last called them.
dtmfmode	null, rfc2833, info, inband, auto	no	string	Configures the mode for sending DTMF.  Null: Use global setting.  RFC4733 (default): DTMF is transmitted as audio in the RTP stream but is encoded separately from the audio stream.  Backward-compatible with RFC2833.  Info: DTMF is transmitted through SIP signaling using info method.  Inband: DTMF is transmitted as audio and is included in the audio stream.  Auto: self-adjust
enable_qualify	yes, no	no	string	Enable Heartbeat Detection yes: the PBX will regularly send SIP OPTIONS to check if the device is online.
encryption	no, yes, support	no	string	SRTP encryption mode Toggles support for RTP stream encryption.
fax_intelligent_route		no	string	<ul> <li>Enable fax intelligent routing. Set the destination to which the fax will be forwarded when a fax is detected. The following options are available:</li> <li>Extension: Sends a fax to the specified extension when a fax is detected. If FXS extension is selected here, the fax will be sent to the FXS extension.</li> <li>Fax to E-mail: When the fax is detected, the fax will be sent as an attachment to the specified e-mail address. The e-mail address can be the extension's mailbox or self-identification. Define a mailbox.</li> <li>Note: If you need to send a fax to your mailbox, make sure that the Mailbox in System is set up correctly.</li> </ul>
fax_intelligent_route _destination		no	string	Fax destination. The destination of fax intelligent routing can only be a fax extension or an fxs extension with a fax device.
faxdetect	yes, no	no	string	
Fromdomain		no	string	From domain Configure the actual domain where the extension comes from. Can override From field. For example, "trunk.UCM6510.provider.com" is the domain name of the following From header field. sip:1234567@trunk.UCM6510.provider.com
fromuser		no	string	Configure the actual user Can override From header field. A single ID could register multiple DID. For example "1234567" is the username of the

				following From header field: sip:1234567@trunk.UCM6510.provider.com
host		no	string	Enter the IP address or hostname of the VoIP provider's serv
keepcid	no, yes	no	string	Keep Trunk CID  yes: Trunk CID will not be overwritten by host CID. When set yes, cidnumber is mandatory.
keeporgcid	no, yes	no	string	Keep Original CID Keep CID from the inbound call when dialing out even if option "Keep Trunk CID" is enabled. Please make sure the peer PBX the other end supports matching user entry using the "username" field from the authentication line.
ldap_custom_prefix		no	string	LDAP Dialed Prefix  System will automatically modify the remote contacts by adding this prefix. When Idap_default_outrt is set to self-defined, use this prefix.
ldap_default_outrt		no	int	LDAP Outbound Rule  Specify an outbound rule. The PBX system will automatically modify the remote contacts by adding prefix parsed from thi rule.  If null and Idap_default_outrt_prefix is configured, use custof outbound prefix. If null, no outbound prefix is added by default.
ldap_sync_enable	no, yes	no	string	Sync LDAP Enable Provide and update the local LDAP contact to a remote peer automatically (SIP peer trunk only). To ensure successful synchronization, the remote peer needs to enable this service and set the same password as the local UCM.
ldap_sync_passwd		no	string	Sync LDAP Password  This is the password used for LDAP contact file encryption a decryption. The password must be the same for both peers ensure successful synchronization.
ldap_sync_port		no	int	Sync LDAP Port The TCP port used by this service.
nat	no, yes	no	string	Enable this setting if the UCM is using public IP and communicating with devices behind NAT.  Note 1: This setting will overwrite the Contact header of received messages, which may affect the ability to establish calls when behind NAT. Consider changing settings in PBX Settings->SIP Settings->NAT instead.  If one is experiencing one-way audio issues, please check th NAT configuration and SIP/RTP ports in the firewall.
need_register	no, yes	no	string	Whether to register on the external server.
out_maxchans		no	int	The number of current outgoing calls over the trunk at the sa time. The default value 0 means no limit.
out_of_service		no	int	The number of current outgoing calls over the trunk at the sa time. The default value 0 means no limit.
outboundproxy		no	string	Outbound proxy When configured, the outbound signal will be sent to the pro instead of the devices directly. The outbound proxy can be

				domain name or IP address.
pai_number		no	string	PAI Header PAI header for the trunk formatted as "name <number>", "<number>", or "number". If not configured, CID will be used instead.</number></number>
passthrough_pai	yes, no	no	string	Passthrough PAI Header If enabled and "Send PAI Header" is disabled, PAI headers will be preserved as calls pass through the UCM.
qualifyfreq		no	int	Configure the frequency (in seconds) to send SIP OPTIONS messages to check the status of the device. Default is 60.
rmv_obp_from_route	no, yes	no	string	Remove OBP from Route  If enabled, the outbound proxy URI in the Route header will be removed from SIP requests. Default setting is "No".
secret		no	string	Password of register trunk
send_ppi	yes, no	no	string	Send PPI Header Yes: the invite message sent to trunks will contain PPI (P- Preferred-Identity) Header.
status	Unknown, Unmonitored , Reachable, Unreachable, Registered, Unregistered, Lagged, Failed, Request Sent, Rejected, Timeout, No Authenticati on	no	string	
tel_uri	disabled, user_phone, enabled	no	string	TEL URI Enabled: TEL URI and Remove OBP from Route cannot be enabled at the same time. If set to "Enable", "Tel:" will be used instead of "SIP:" in the SIP request. User_phone: If the phone has an assigned PSTN telephone number, this field should be set. A "User=Phone" parameter will then be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number.
transport	udp, tcp, tls	no	string	Configure the SIP Transport method. Using TCP requires local TCP support; using TLS requires local TLS support.
trunk_index		no	string	Trunk ID
trunk_name		no	string	Provider name  Configure a unique label to identify the trunk when listed in outbound rules and incoming rules.
trunk_type	peer, register	no	string	Trunk type Peer trunk or register trunk

use_dod_in_ppi	no, yes	no	string	Displays whether the DOD is being used for the PPI header. If both use_dod_in_pi and use_origcid_in_ppi are set to "no", CID will be used for the PPI header.
use_origcid_in_ppi	yes, no	no	string	Displays whether or not the original CID is used for the PPI header.  If both use_dod_in_pi and use_origoid_in_ppi are set to "no", CID will be used for the PPI header.
username		no	string	Configure the username to authenticate with the VoIP provider.
use_for_sfu_conf	yes, no	no	string	IPVT Mode Enabling this will allow UCM to establish communication with IPVT.
Failed response				
status		yes	string	Please see the error code list for more details.

getSIPTrunk

# updateSIPTrunk

The "updateSIPTrunk" action will allow users to update existing SIP trunk while specifying the trunk's number.

## Request

```
{
    "request":{
        "action":"updateSIPTrunk",
        "cookie":"sid23597213-1574672527",
        "trunk":"5",
        "trunk_name":"GS1"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Cookie: Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
trunk		yes	string	Trunk id, specify which trunk to edit.
allow	ulaw, alaw, gsm, g726,	no	string	Supported codec, multiple can be set.

	g729, ilbc, g722, g726aal2, adpcm, g723, h263, h263p, h264, h265, vp8, opus, rtx, mandatory			
allow_outgoing_calls_if_reg_faile d	yes, no	no	string	Whether outgoing calls are allowed when registration failed  no: Calls are not allowed when the registration fails. If no outgoing registration is set, this configuration item can be ignored.
auth_trunk	yes, no	no	string	Authenticate trunk yes: the UCM will send a 401 response to the incoming call to authenticate the trunk.
authid	Up to 64 characters	no	string	Authenticate ID This is the SIP service subscriber's ID used for authentication. If not configured, the Extension Number will be used for authentication.
auto_recording	no, yes	no	string	Auto record.
cc_agent_policy	native, never	no	string	To enable CC service Control together with cc_monitor_policy. When cc_agent_policy and cc_monitor_policy are native at the same time, service is enables. When both are never, service is disabled.
cc_max_agents	1-999	no	int	The maximum number of CCSS agents that may be allocated to this channel. In other words, this number is the maximum number of CC requests this channel is allowed to make.
cc_max_monitors	1-999	no	int	The maximum number of monitor structures which may be created for this device. In other words, this number tells how many callers may request CC services for a specific device at one time.
cc_monitor_policy	native, never	no	string	To enable CC service Control together with cc_agent_policy. When cc_agent_policy and cc_monitor_policy are native at the same time, service is enables. When both are never, service is disabled.
cidname	2-64 characters	no	string	Caller ID Name Configure the new name of the caller when the extension has no CallerID Name configured.

cidnumber	2-64 characters	no	string	Caller ID  Number that the trunk will try to use when making outbound calls.  CID priority from highest to lowest is as follows:  From User (register trunk only) > Inbound Call CID (enable using remote CID) > Trunk CID/register trunk username (Keep Trunk CID enabled) > DOD CID(with correspond DOD configuration) > Extension CID > Register Trunk Username (for register trunk only, Keep Trunk CID disabled) > Global Outbound CID.  Note: Certain providers may ignore this CID.
dialin_direct	no, yes	no	string	Direct callback Allows external numbers the option to get directed to the extension that last called them.
did_mode	request-line, to- header	no	string	DID Mode  Configure to obtain the destination ID of an incoming SIP call from SIP Request-line or To header.
dtmfmode	Null, rfc4733, info, inband, auto	no	string	Configures the mode for sending DTMF.  Null: Use global setting.  RFC4733 (default): DTMF is transmitted as audio in the RTP stream but is encoded separately from the audio stream. Backward-compatible with RFC2833.  Info: DTMF is transmitted through SIP signaling using info method.  Inband: DTMF is transmitted as audio and is included in the audio stream.  Auto: self-adjust
enable_qualify	yes, no	no	string	Enable Heartbeat Detection yes: the PBX will regularly send SIP OPTIONS to check if the device is online.
encryption	no, yes, support	no	string	SRTP encryption mode  Set whether to turn on SRTP mode to encrypt RTP streams.
fax_intelligent_route		no	string	Enable fax intelligent routing. Set the destination to which the fax will be forwarded when a fax is detected. The following options are available:  • Extension: Sends a fax to the specified extension when a fax is detected. If FXS extension is selected here, the fax will be sent to the FXS extension.

				Fax to E-mail: When the fax is detected, the fax will be sent as an attachment to the specified e-mail address. The e-mail address can be the extension's mailbox or self-identification. Define a mailbox. Note: If you need to send a fax to your mailbox, make sure that the Mailbox in System is set up correctly.
fax_intelligent_route_destination		no	string	Fax destination. The destination of fax intelligent routing can only be a fax extension or an fxs extension with a fax device.
fromdomain	Up to 60 characters	no	string	From domain Configure the actual domain where the extension comes from. Can override From field. For example,"trunk.UCM6510.provider.com "is the domain name of the following From header field. sip:1234567@trunk.UCM6510.provider.com
fromuser	Up to 64 characters	no	string	Configure the actual user, Can override From header field. A single ID could register multiple DID. For example "1234567" is the username of the following From header field: sip:1234567@trunk.UCM6510.provider. com
host	Required. Up to 60 characters.	no	string	Enter the IP address or hostname of the VoIP provider's server.
keepcid	no, yes	no	string	Keep Trunk CID  yes: Trunk CID will not be overwritten by host CID. When set to yes, cidnumber is mandatory.
keeporgcid	no, yes	no	string	Keep Original CID  Keep CID from the inbound call when dialing out even if option "Keep Trunk CID" is enabled. Please make sure the peer PBX at the other end supports matching user entry using the "username" field from the authentication line.
ldap_custom_prefix	1-14 characters	no	string	LDAP Dialed Prefix System will automatically modify the remote contacts by adding this prefix. When Idap_default_outrt is set to self-defined, use this prefix.
ldap_default_outrt	The existing outgoing route id	no	int	LDAP Outbound Rule Specify an outbound rule. The PBX system will automatically modify the

W. College Broken	W. C.	i.	remote contacts by adding prefix parsed from this rule.  If null and Idap_default_outrt_prefix is configured, use custom outbound prefix. If null, no outbound prefix is added by default.
ldap_sync_enable	no, yes	no	string  Sync LDAP Enable  Provide and update the local LDAP contact to a remote peer automaticall (SIP peer trunk only). To ensure successful synchronization, the remot peer needs to enable this service and set the same password as the local UCM.
Idap_sync_passwd	4-64 alphanumeric characters and underscore (_) only.	no	Sync LDAP Password  This is the password used for LDAP contact file encryption and decryption The password must be the same for both peers to ensure successful synchronization.
ldap_sync_port	Value between 1-65534	no	int  The TCP port used by this service.
nat White best of the part.	no, yes	no	Enable this setting if the UCM is using public IP and communicating with devices behind NAT.  Note 1: This setting will overwrite the Contact header of received messages which may affect the ability to establish calls when behind NAT.  Consider changing settings in PBX Settings->SIP Settings->NAT instead. If one is experiencing one-way audio issues, please check the NAT configuration and SIP/RTP ports in the firewall.  This configuration needs to be confirmed under real situation becaus it will change the Contact header field of incoming message in tun affects the establishing of calls. Under NAT environment, it requires configuring on NAT interface of SIP settings.
need_register	no, yes	no	string Whether to register on the external server.
out_maxchans	Value between 0-999	no	The number of current outgoing calls int over the trunk at the same time. The default value 0 means no limit.
out_of_service	no, yes	no	string. Whether to disable the trunk.
outboundproxy	Domain name or IP address	no	string  Outbound proxy  When configured, the outbound signal will be sent to the proxy instead of the
*			

neni

				devices directly. The outbound proxy can be domain name or IP address.
pai_number	Up to 60 characters	no	string,	PAI Header The user and name of the PAI header, it is formatted as "name <number>" or "<number>" or "number". If null, use the CID according to the priority.</number></number>
passthrough_pai	yes, no	no	string	Passthrough PAI Header  If enabled and "Send PAI Header" is disabled, PAI headers will be preserved as calls pass through the UCM.
qualifyfreq	Value between 1-3600	no	int	Configure the frequency (in seconds) to send SIP OPTIONS messages to check the status of the device.  Default is 60.
				Remove OBP from Route
rmv_obp_from_route	no, yes	no	string	It is used for removing the URI of outbound proxy from Route header field of phone system. If enabled, Route header will be removed from SIP requests. The default setting is "No".
secret	Up to 64 characters	no	string	Password of register trunk
send_ppi	no, yes	no	string	Send PPI Header  Yes: the invite message sent to trunks will contain PPI (P-Preferred-Identity) Header.
tel_uri	disabled, user_phone, enabled	no	string	Enabled: TEL URI and Remove OBP from Route cannot be enabled at the same time. If set to "Enable", "Tel:" will be used instead of "SIP:" in the SIP request.  User_phone: If the phone has an assigned PSTN telephone number, this field should be set. A "User=Phone" parameter will then be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number.
transport	udp, tcp, tls	no	string	Configure the SIP Transport method. Using TCP requires local TCP support; using TLS requires local TLS support.
trunk_name	2-64 characters	no	string	Trunk id
use_dod_in_ppi	no, yes	no	string	Configure how to set the PPI number.

ment

				When use_dod_in_ppi and use_origcid_in_ppi are both no, set the ppi number by CID option priority. When use_origcid_in_ppi is yes, use the original CID in the PPI header, if no original CID, use the default number. When use_dod_in_ppi is yes, use the DOD number in the PPI header, if no DOD number, use the default number.			
use_origcid_in_ppi	no, yes	no	string	Configure how to set the PPI number. When use_dod_in_ppi and use_origcid_in_ppi are both no, set the ppi number by CID option priority. When use_origcid_in_ppi is yes, use the original CID in the PPI header, if no original CID, use the default number. When use_dod_in_ppi is yes, use the DOD number in the PPI header, if no DOD number, use the default number.			
username	Up to 64 characters	no	string	Configure the username to authenticate with the VoIP provider.			
use_for_sfu_conf	yes, no	no	string	IPVT Mode  Configures the UCM to be used exclusively for IPVT. Warning: This will lock out certain UCM features.			
Successful response							
status	0	yes	int	Successful response, the status is 0.			
Failed response	Failed response						
status		yes	int	Please see the error code list for more details.			

updateSIPTrunk

## deleteSIPTrunk

The "deleteSIPTrunk" action, allows users to delete an existing trunk.

## Request

```
{
    "request":{
        "action":"deleteSIPTrunk",
        "cookie":"sid23597213-1574672527",
        "trunk":"5"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note				
Request paramete	Request parameter							
Cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
Trunk		yes	string	Enter the trunk ID to specify the trunk to delete.				
Successful response								
Status	0	yes	int	The response is successful, status is 0				
Failed response								
Status		yes	int	Please see the error code list for more details.				

deleteSIPTrunk

# listAnalogTrunk

The "listAnalogTrunk" action will allow users to get information about the existing analog trunks, such as the trunk's name, trunk index etc.

Note: The needed information, can be defined in the parameter "options". Otherwise, all the information will be returned.

#### Request

```
{
    "request":{
        "action":"listAnalogTrunk",
        "cookie":"sid1838731674-1582859646",
        "options":"trunk_name,trunk_index,chans,out_of_service,trunkmode"
    }
}
```

Key Word	Value	Mandatory	Туре	Note
Request Parame	ter			
Cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
Page		no	int	Get extension list by page number.
item_num		no	int	Number of trunks to return for the request. If unspecified, all trunks will be returned.
Sord	acs,desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.
Sidx		no	string	Sort by trunk index. This is based on trunk creation date.
options	trunk_name, trunk_index, chans, out_of_service, trunkmode	no	string	
Successful respo	onse			
Status	0	yes	int	Successful response, status is 0
analogtrunk		yes	Json array	Analog trunk list
total_item		yes	int	Total number of items that were returned.
total_page		yes	int	Total number of pages in the list.
Page		yes	int	What page is on.
trunk_index		no	string	Trunk ID

trunk_name	no	string	Trunk name
out_of_service	no	string	Either the trunk is disabled or not
Chans	no	string	Used ports
trunkmode	no	string	Trunk mode
Failed response			
status	yes	int	Please see the error code list for more details.

listAnalogTrunk

# add Analog Trunk

The "addAnalogTrunk" action will allow users to create Analog trunks.

#### Request

```
"request":{
           "chans": 2,
           "trunkgroup":"",
           "action": "addAnalogTrunk",
            "cookie": "sid65643067-1582875896"
        "trunk_name":"1232",
            "trunkmode": "normal",
           "polarityswitch": "no",
            "enablecurrentdisconnectthreshold": "yes",
            "currentdisconnectthreshold": 200,
           "ringtimeout": 8000,
            "rxgain": 0,
        "txgain": 0,
            "usecallerid": "yes",
           "cidmode": 0,
            "fxooutbandcalldialdelay": 0,
            "auto_record": "no",
            "out_of_service": "no",
            "dahdilineselectmode": "ascend",
            "lectype": 0,
            "busydetect": "yes",
            "busycount": 2,
            "congestiondetect": "yes",
            "congestioncount": 2,
            "countrytone": "us",
            "busy": "f1=480@-50,f2=620@-50,c=500/500",
            "congestion": "f1=480@-50,f2=620@-50,c=250/250",
        "dialin_direct": "no",
           "cidstart": "ring",
            "cidsignalling": "bell",
            "faxdetect": "incoming",
           "fax_gateway": "no"
```

```
{
    "response":{
        "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
Cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
trunk_name		yes	string	Trunk name
Auto_record	Yes, no	no	string	Whether to enable automatic recording
Busy		no	string	Busy tone settings
Busydetect	Yes, no	no	string	Whether to enable busy tone detection
busycount		no	int	The number of busy tones the user will hear before hanging up the call when Busy Detection is enabled.
Chans		yes	int	Used ports
Congestion		no	string	Congestion tone settings
Congestionco unt		no	int	The number of congestion tones to wait for when Congestion Detection is enabled.
Congestiondet ect	Yes, no	no	string	Congestion Detection is used for detecting far end congestion signal.
Countrytone		no	string	Country for tone settings. You can also select Custom and set the values manually.
Currentdiscon nectthreshold	50-3000	no	int	Current hang-up threshold (ms)
Dahdilineselec tmode		no	string	Outgoing line selection
dialin_direct	Yes, no	no	string	Direct callback
Enablecurrent disconnectthr eshold		no	string	Whether to enable the current hang-up threshold
Fxooutbandca Ildialdelay	0-3000	no	int	FXO dial delay
Fax_gateway	Yes, no	no	string	Either the FXO mode is set to fax gateway or not
Lectype		no	int	Echo cancellation mode
out_maxchans		no	int	Maximum number of calls

out_of_service	Yes, no	no	string	Either the trunk is disabled or not
Polarityonans werdelay	100 – 2000	no	int	Polarity reversal response delay
Polarityswitch	Yes, no	no	string	Detect polarity reversal
ringtimeout	4000 – 20000	no	int	ringtimeout
Rxgain	-13 - +12	no	real	RX gain
trunkmode	Normal, SLA	no	string	Trunk mode
Txgain	-13 - +12	no	real	TX gain
Usecallerid	Yes, no	no	string	Whether to enable use callerID option or not
Trunkgroup		yes	string	The default is 0 when adding. The value is the same as trunk index
Cidsignaling		no	string	CallerID scheme
Cidmode		no	int	Caller number combination
Successful response				
Status	0	yes	int	The response is successful, status is 0
Failed response				
Status		yes	int	Please see the error code list for more details.

listAnalogTrunk

# ${\tt getAnalogTrunk}$

The "getAnalogTrunk" will allow users to get information about a specific trunk.

## o Request

```
{
    "request":{
        "action":"getAnalogTrunk",
        "cookie":"sid23597213-1574672527",
        "analogtrunk":"3"
    }
}
```

```
"response":{
    "analogtrunk":{
       "auto_record":"no",
        "busy": "f1=480@-50, f2=620@-50, c=500/500",
        "busycount":2,
        "busydetect": "yes",
        "callerid": "asreceived",
        "chans":"1",
        "cidmode":0,
        "cidsignalling": "bell",
        "cidstart":"ring",
        "congestion":"f1=480@-50,f2=620@-50,c=250/250",
        "congestioncount":2,
        "congestiondetect": "yes",
        "countrytone":"us",
        "currentdisconnectthreshold":200,
        "dahdilineselectmode": "ascend",
        "dialin_direct": "no",
        "echocancel":128,
        "enablecurrentdisconnectthreshold":"yes",
        "fax_gateway":"no",
        "fax_intelligent_route":"no",
        "fax_intelligent_route_destination":null,
        "faxdetect": "incoming",
        "fxooutbandcalldialdelay":0,
        "lectype":0,
        "out_maxchans":0,
        "out of service": "no",
        "polarityonanswerdelay":600,
        "polarityswitch": "no",
        "ringtimeout":8000,
        "rxgain":0.0,
        "tmp":7,
        "trunk_index":7,
        "trunk name":"123",
        "trunkgroup":7,
        "trunkmode": "normal",
        "txgain":0.0,
        "usecallerid":"yes"
"status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
Cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
analogtrunk		yes	int	Trunk id		
Successful response						
trunk_name		Yes	string	Trunk name		
Auto_record	Yes, no	No	string	Whether to enable automatic recording		
Busy		No	string	Busy tone settings		
Busydetect	Yes, no	No	string	Whether to enable busy tone detection		
busycount		No	int	The number of busy tones the user will hear before hanging up the call when		

				Busy Detection is enabled.
Chans		yes	int	Used ports
Congestion		No	string	Congestion tone settings
Congestioncount		No	int	The number of congestion tones to wait for when Congestion Detection is enabled.
Congestiondetect	Yes, no	No	string	Congestion Detection is used for detecting far end congestion signal.
Countrytone		No	string	Country for tone settings. You can also select Custom and set the values manually.
Currentdisconnectthreshold	50-3000	No	int	Current hang-up threshold (ms)
Dahdilineselectmode		No	string	Outgoing line selection
dialin_direct	Yes, no	No	string	Direct callback
Enablecurrentdisconnectthreshold		No	string	Whether to enable the current hang-up threshold
Fxooutbandcalldialdelay	0-3000	No	int	FXO dial delay
Fax_gateway	Yes, no	No	string	Either the FXO mode is set to fax gateway or not
Lectype		No	int	Echo cancellation mode
out_maxchans		No	int	Maximum number of calls
out_of_service	Yes, no	No	string	Either the trunk is disabled or not
Polarityonanswerdelay	100 – 2000	No	int	Polarity reversal response delay
Polarityswitch	Yes, no	No	string	Detect polarity reversal
ringtimeout	4000 - 20000	No	int	Ringtimeout
Rxgain	-13 - +12	No	real	RX gain
Trunkmode	Normal, SLA	No	string	Trunk mode
Txgain	-13 - +12	No	real	TX gain
Usecallerid	Yes, no	No	string	Whether to enable use callerID option or not
Trunkgroup		yes	string	The default is 0 when adding. The value is the same as trunk index

Cidsignaling		No	string	CallerID scheme	
Cidmode		No	int	Caller number combination	
Status	0	Yes	int	The response is successful, status is 0	
Failed response					
Status		Yes	int	Please see the error code list for more details.	

getAnalogTrunk

## updateAnalogTrunk

The "updateAnalogTrunk" action will allow users to update the existing Analog trunk while specifying the trunk group.

#### o Request

```
"request":{
    "trunkmode": "normal",
            "polarityswitch": "no",
            "enable current disconnect threshold": "yes",\\
            "currentdisconnectthreshold": 200,
            "ringtimeout": 8000,
            "rxgain": 0,
        "txgain": 0,
            "usecallerid": "yes",
            "cidmode": 0,
            "fxooutbandcalldialdelay": 0,
            "auto record": "no",
            "out_of_service": "no",
            "dahdilineselectmode": "ascend",
            "lectype": 0,
            "busydetect": "yes",
            "busycount": 2,
            "congestiondetect": "yes",
            "congestioncount": 2,
            "countrytone": "us",
            "busy": "f1=480@-50,f2=620@-50,c=500/500",
            "congestion": "f1=480@-50,f2=620@-50,c=250/250",
            "dialin_direct": "no",
            "cidstart": "ring",
            "cidsignalling": "bell",
            "faxdetect": "incoming",
            "fax_gateway": "no",
            "chans": 2,
            "trunkgroup":7,
            "action": "updateAnalogTrunk",
            "cookie": "sid65643067-1582875896"
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
Cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
Trunk_index		Yes	string	Trunk index			
Other parameter	s are the sai	ne as addAnalog	Trunk actior	1			
Successful respo	onse						
Status	0	Yes	int	The response is successful, status is 0			
Failed response							
Status		Yes	int	Please see the error code list for more details.			

updateAnalogTrunk

# ${\bf delete Analog Trunk}$

The "deleteAnalogTrunk" action, allows users to delete an existing trunk.

## o Request

```
{
    "request":{
        "action":"deleteAnalogTrunk",
        "analogtrunk":7,
        "cookie":"sid1449753552-1582877632"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
Cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.

analogtrunk		Yes	int	Enter the trunk ID to specify the trunk to delete.
Successful response				
status	0	yes	int	The response is successful, status is 0
Failed response				
Status		yes	int	Please see the error code list for more details.

delete Analog Trunk

#### addSLATrunk

The action "addSLATrunk" allows user to enable SLA on an existing analog trunk.

#### Request

```
{
    "request":{
        "action":"addSLATrunk",
        "bargeallowed":"yes",
        "cookie":"sid1344581054-1582879094",
        "device":"DAHDI/1",
        "holdaccess":"open",
        "trunk_name":"1232"
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
Cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
Trunk_name		yes	string	Trunk name		
Device		no	string	Device port id (DAHDI / 1)		
Bargeallowed	Yes, no	no	string	Whether to allow barge or not.		
Holdaccess	Open, private	no	string			

Successful response					
Status	0	Yes	Int	The response is successful, status is 0	
Failed response					
Status		Yes	int	Please see the error code list for more details.	

addSLATrunk

# updateSLATrunk

The "updateSLATrunk" action allows user to update an existing SLA analog trunk.

# Request

```
{
    "request":{
        "action":"updateSLATrunk",
        "bargeallowed":"yes",
        "cookie":"sid1344581054-1582879094",
        "device":"DAHDI/1",
        "holdaccess":"open",
        "trunk_index":7,
        "trunk_name":"43243"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
Cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
Trunk_index		yes	string	Trunk index		
Other parameters	are the sam	e as addSLATrun	ık action			
Successful respon	nse					
Status	0	Yes	int	The response is successful, status is 0		
Failed response						

Status Yes int Please see the error code list for more detail
---

updateSLATrunk

## listDigitalTrunk

The "listDigitalTrunk" action will allow users to get information about the existing Digital trunks, such as the trunk's name, trunk index etc.

Note: The needed information, can be defined in the parameter "options". Otherwise, all the information will be returned.

#### Request

```
"request":{
    "action":"listDigitalTrunk",
    "options":"trunk_name,type,trunk_index,span,channel,out_of_service",
    "cookie":"sid1271797830-1582880510"
}
```

Key Word	Value	Mandatory	Туре	Note		
Request Paramete	Request Parameter					
cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
Page		No	int	Get extension list by page number.		
item_num		No	int	Number of trunks to return for the request. If unspecified, all trunks will be returned.		
sord	acs,desc	No	string	Sorting method. acs stands for ascending, and desc stands for descending.		

sidx		No	string	Sort by trunk index. This is based on trunk creation date.			
options	trunk_name, type, trunk_index, span, channel, out_of_service	no	string	Specify the information to return. Multiple options can be selected and must be separated by commas. If unspecified, all the listed information will be returned.			
Successful respor	nse						
status	0	yes	Int	Successful response, status is 0			
Digital_trunk		yes	Json array	Digital trunk list			
total_item		yes	Int	Total number of items that were returned.			
total_page		yes	Int	Total number of pages in the list.			
page		yes	Int	What page is on.			
trunk_index		No	string	Trunk ID			
trunk_name		No	string	Trunk name			
out_of_service		No	string	Either the trunk is disabled or not			
Span		No	string	Used ports			
Туре		No	string	Pattern type			
Channel		No	string	Signaling channel			
Failed response	Failed response						
status		Yes	int	Please see the error code list for more details.			

ListDigitalTrunk

# add Digital Trunk

The "addDigitalTrunk" action will allow users to create Digital trunks.

Request

```
"request":{
    "action":"addDigitalTrunk",
    "auto_recording":"yes",
    "callerid":"543543",
    "cidname":"32432",
        "cookie":"sid2074121023-1582881736",
    "dahdilineselectmode":"poll",
    "dialin_direct":"yes",
    "group_index":1,
    "hidecallerid":"yes",
    "keepcid":"yes",
    "technology":"PRI",
    "trunk_name":"4324"
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
Cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
trunk_name		Yes	string	Trunk name		
group_index	Yes, no	yes	int	Channel group		
Hidecallerid		no	string	Hide caller ID		
Keepcid	Yes, no	no	string			
Callerid		no	string	Caller ID		
Cidname		no	string	Caller ID name		
Auto_recording	Yes, no	no	string	Either to enable auto recording or not.		
Dahdilineselectmode	ascend, poll, desend	no	string	Outbound route selection		
dialin_direct	Yes, no	no	string	Callback		
Technology	PRI, SS7, MFC/R2, EM, EM_W	no	string	Signaling protocol		

Successful response					
Status	0	yes	int	The response is successful, status is 0	
Failed response					
Status		yes	int	Please see the error code list for more details.	

addDigitalTrunk

# getDigitalTrunk

The "getDigitalTrunk" will allow users to get information about a specific Digital trunk.

#### Request

```
{
    "request":{
        "action":"getDigitalTrunk",
        "cookie":"sid1105656270-1582883162",
        "trunk":1
    }
}
```

```
"response":{
    "trunk":{
       "auto_recording": "no",
       "callerid":null,
       "cidname":null,
       "dahdilineselectmode": "ascend",
       "dialin direct": "no",
       "fax_intelligent_route":"no",
       "fax intelligent route destination":null,
       "faxdetect":"yes",
       "group_index":1,
       "hidecallerid": "no",
       "keepcid":"no",
       "out_of_service":"no",
       "pulsedial":"no",
       "status":"Unavailable",
       "trunk_index":1,
       "trunk_name":"324"
"status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
Cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
Trunk		yes	int	Trunk id

Request parameter					
trunk_name		Yes	string	Trunk name	
Status	0	yes	int		
Trunk_name		yes	string	Trunk name	
Trunk		yes	int	Trunk id	
group_index	Yes, no	yes	int	Channel group	
Hidecallerid		no	string	Hide caller ID	
Keepcid	Yes, no	no	string		
Callerid		no	string	Caller ID	
Cidname		no	string	Caller ID name	
Auto_recording	Yes, no	no	string	Either to enable auto recording or not.	
Dahdilineselectmode	ascend, poll, descend	no	string	Outbound route selection	
dialin_direct	Yes, no	no	string	Callback	
Status		no	string	Trunk status	
Out_of_service		no	string	Whether the trunk is disabled or not	
Failed response					
Status		yes	int	Please see the error code list for more details.	

getDigitalTrunk

# update Digital Trunk

The "updateDigitalTrunk" action will allow users to update the existing Digital trunk while specifying the trunk ID.

# o Request

```
{
    "request":{
        "action":"updateDigitalTrunk",
        "auto_recording":"yes",
        "callerid":"543543",
        "cidname":"32432",
        "cookie":"sid1105656270-1582883162",
        "dahdilineselectmode":"poll",
        "dialin_direct":"yes",
        "group_index":1,
        "hidecallerid":"yes",
        "keepcid":"yes",
        "trunk":1,
        "trunk_name":"4324"
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
Cookie		yes	String	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
trunk_name		Yes	String	Trunk name		
Trunk		yes	Int	Trunk id		
group_index	Yes, no	yes	int	Channel group		
Hidecallerid		no	string	Hide caller ID		
Keepcid	Yes, no	no	string			
Callerid		no	string	Caller ID		
Cidname		no	string	Caller ID name		
Auto_recording	Yes, no	no	string	Either to enable auto recording or not.		
Dahdilineselectmode	ascend, poll, desend	no	string	Outbound route selection		
dialin_direct	Yes, no	no	string	Callback		
Successful response						

Status	0	yes	int	The response is successful, status is 0
Failed response				
Status		yes	int	Please see the error code list for more details.

*UpdateDigitalTrunk* 

# ${\bf delete Digital Trunk}$

The "deleteDigitalTrunk" action, allows users to delete an existing Digital trunk.

## Request

```
{
    "request":{
        "action":"deleteDigitalTrunk",
        "trunk":7,
        "cookie":"sid1449753552-1582877632"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note
Request	parameter	<u>'</u>		
Cookie		Yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
Trunk		Yes	int	Enter the trunk ID to specify the trunk to delete.
Successf	ul response			
Status	0	Yes	int	The response is successful, status is 0
Failed res	sponse	'		
Status		Yes	int	Please see the error code list for more details.

#### **Outbound Route**

#### **listOutboundRoute**

The "listOutboundRoute" allows users to list the existing outbound route such as the route's name, its permission, etc.

Note: The needed information, can be defined in the parameter "options".

#### Request

```
"request":{
    "action":"listOutboundRoute",
    "cookie":"sid23597213-1574672527",
    "options":"outbound_rt_name,outbound_rt_index,permission,sequence,pattern,out_of_service"
}
}
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
Cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
Page		no	int	Retrieves outbound routes by the page they're on.			
item_num		no	int	Extension number on each page, which is, the maximum items of each return. If empty, all members are returned by default.			
Sord	acs, desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.			

Sidx		no	string	Sort according to the index.
options	outbound_rt_name, outbound_rt_index, permission, sequence, pattern, out_of_service	no	string	Specifies the information to retrieve.  Several items can be entered and separated by commas. If unspecified, all outbound route information will be retrieved.
Successful response				
status	0	yes	int	Successful response, status is 0
outbound_route		yes	Json array	Outbound route list
total_item		yes	int	Total number of items that were returned.
total_page		yes	int	Total number of pages in the list.
Page		yes	int	Page number that the trunks are on.
outbound_rt_index		no	string	ID of the outbound route. Used for updating and deleting outbound routes.
outbound_rt_name		no	string	Name of the outbound route.
Permission		no	string	Privilege Level  The required permission level to use the outbound route.
sequence		no	string	Trunk type Peer trunk and register trunk
pattern		no	string	Outbound routing rules. Multiple patterns are separated by commas.
Failed response				
Status		yes	int	Please see the error code list for more details.

listOutboundRoute

## $add \\ Outbound \\ Route$

The "addOutboundRoute" will allow users to add an outbound route for a specific trunk that needs to be defined using the "default\_trunk\_index".

Request

```
{
    "response":{
         "need_apply":"yes"
    },
     "status":0
}
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
outbound_rt_index		yes	string	The id of the outgoing route, which configuration of the outgoing route is obtained.			
outbound_rt_name	2-24 letters/numbers/special characters Mandatory.	yes	string	Outbound route name			
default_trunk_index	mandatory	yes	string	Corresponding trunk id used by the outbound route			
pattern	mandatory	no	Json array	Available Extensions/Extension Groups after enabling filter on source caller ID. Outgoing prefix All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  • [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed. • N Any digit from 2-9.			

				<ul> <li> Wildcard, matching one or more characters.</li> <li>! Wildcard, matching zero or more characters immediately.</li> <li>X Any digit from 0-9.</li> <li>Z Any digit from 1-9.</li> <li> Hyphen is to connect characters and it will be ignored.</li> <li>[Contain special characters ([x], [n], [z]) represent letters x, n, z. Multiple patterns can be one member in json array, which is saved in match.</li> <li>For example, pattern is _1, _2: "pattern":[  {         "allow":null,         "match":"_1",         "outbound_rt_index":2,         "strip_prefix":null         },         {         "allow":null,         "match":"_2",         "outbound_rt_index":2,         "strip_prefix":null         }     } }</li> </ul>
permission	none, Internal, local, national, international	no	string	outbound permission. internal: internal internal-local: local internal-local-national: nationwide internal-local-national- international: international
out_of_service	Yes, no	no	string	Whether to disable the outgoing route
password	4-10 digits. If null, no outbound password is used.	no	string	Outbound password
strip	[0,32]	no	int	Strip Specify the number of digits that will be stripped from the beginning of the dialed string before the call is placed via the selected trunk. For example, the users will dial 9 as the first digit of a long distance calls. However, 9 should not be sent out via analog lines and the PSTN line. In this case, one digit should be stripped before the call is placed.
prepend	0 to 20 alphanumeric characters or +_*#	no	string	Prepend Those digits will be prepended after the dialing number is stripped.
enable_wlist	Yes, no	no	string	Enable Filter on Source Caller ID

				Set to yes to enable filter on Source Caller ID. If enabled, Caller ID must in the selected list or match Custom Dynamic Route to make outbound calls.			
Successful response	Successful response						
status	0	yes	int	The response is successful, status is 0			
Failed response							
status		yes	int	Please see the error code list for more details.			

addOutboundRoute

## getOutboundRoute

The "getOutboundRoute" allows users to get information about an existing outbound route.

#### o Request

```
"request":{
   "action": "getOutboundRoute",
   "cookie": "sid932531770-1574674600",
   "custom_member":"",
   "default_trunk_index":"",
   "enable_wlist":"",
    "failover_outbound_data":"",
   "limitime":"",
   "members":"",
    "out_of_service":"",
    "outbound_route":"2",
    "outbound_rt_index":"",
   "outbound_rt_name":"",
   "password":"",
   "pattern":"",
   "permission":"",
   "pin_sets_id":"",
   "prepend":"",
   "strip":"",
   "time_mode":""
```

```
"response":{
       "failover_outbound_data":[],
        "outbound_route":{
           "custom_member":null,
           "default_trunk_index":3,
            "enable_wlist":"no",
            "limitime":null,
            "members":null,
            "out_of_service":"no",
            "outbound_rt_index":2,
            "outbound_rt_name":"test123",
            "password":null,
            "permission": "none",
            "pin_sets_id":null,
            "prepend":null,
            "strip":0,
            "time_mode":0
        },
"pattern":[
               "allow":null,
               "match":"_1xxx",
               "outbound_rt_index":2,
               "strip_prefix":null
       ]
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned		
outbound_route		yes	string	Outbound route id, which configuration of the outgoing route is obtained.		
Successful response						
status	0	yes	int	The response is successful, status is 0		
outbound_route		yes	Json, obj	Configuration of the specified outbound route		
outbound_rt_index		yes	string	ID of the outbound route.		
outbound_rt_name		no	string	Name of the outbound route		
permission	none, Internal, local, national, international	no	string	The required permission level to use the outbound route. disable internal: internal internal-local: local internal-local-national: national internal-local-national-international: international		
default_trunk_index		no	string	The ID of the trunk used for the outbound route.		

out_of_service	Yes, no		string	Disable this Route  Displays whether this outbound route is disabled.
password			string	The password required to use the outbound route
strip			int	Strip The number of digits to remove from the beginning of a dialed number before actually making the call. Don't think the example is necessary in this case.
prepend			string	Prepend The digits to add to the beginning of a dialed number before actually making the call.
enable_wlist	Yes, no		string	Enable Filter on Source Caller ID  If enabled, only the selected extensions/extension groups or extensions that satisfy the Custom Dynamic Route pattern can use the outbound route.
members			string	Available Extensions/Extension Groups.  The extensions and extension groups that can use this outbound route when Enable Filter on Source Caller ID is toggled on. Extension groups will be identified by ID.
pattern		no	json array	Outgoing prefix  All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings: [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed.  N Any digit from 2-9.  Wildcard, matching one or more characters.  ! Wildcard, matching zero or more characters immediately.  X Any digit from 0-9.  Z Any digit from 1-9.  Hyphen is to connect characters and it will be ignored.  [Contain special characters ([x], [n], [z]) represent letters x, n, z. Multiple patterns can be one member in json array, which is saved in match.  For example, pattern is _1, _2: "pattern":[  {     "allow":null,     "match": _1",     "outbound_rt_index":2,     "strip_prefix":null },     "allow":null,     "match": _2",     "outbound_rt_index":2,     "strip_prefix":null } ]
failover_outbound_d ata			json array	Each failover trunk is a member of json array.  • failover_prepend: failover prepend  • failover_strip: failover strip

			<ul> <li>failover_trunk_index: failover trunk id</li> <li>failover_trunk_sequence: failover trunk sequence</li> <li>outbound_rt_index: outbound route id</li> <li>For example, the first failover trunk of outbound route 3 is</li> <li>Trunk 4, strip is 2, prepend is 1:         "failover_outbound_data":[</li></ul>
Failed response			
status	yes	int	Please see the error code list for more details.

getOutboundRoute

## updateOutboundRoute

The "updateOutboundRoute" allows users to update an existing outbound route.

## Request

```
{
    "request":{
        "action":"updateOutboundRoute",
        "cookie":"sid932531770-1574674600",
        "outbound_route":"2",
        "outbound_rt_name":"out1",
        "permission":"internal"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
outbound_rt_index		yes	string	The id of the outgoing route, which configuration of the outgoing route is updated		
outbound_rt_name	Required. 2-24 alphanumeric	no	string	Outgoing route name		

	characters, hyphens (-), or underscores (_)			
permission	none, Internal, local, national, international	no	string	outbound permission. internal: internal internal-local: local internal-local-national: nationwide internal-local-national-international: international
default_trunk_index	required	no	string	The corresponding trunk id of the outbound route
pattern	required	no	Json array	Pattern All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  • [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed.  • N Any digit from 2-9  • Wildcard, matching one or more characters.  • ! Wildcard, matching zero or more characters immediately.  • X Any digit from 0-9.  • Z Any digit from 1-9.  • Hyphen is to connect characters and it will be ignored.  • [] Contain special characters ([x], [n], [z]) represent letters x, n, z. For multiple modes, see the array written in json. For example, rules for allowing 2xxx, 12xx outgoing is set as following: [{"match": "_2xxx/*asadad*/"}, {"match": "_12xx"}]
out_of_service	Yes, no	no	string	Whether to disable the outgoing route
password	4-10 digits. If not configured, no password will be used for the outbound route.			
strip	0-32	no	int	Strip Specify the number of digits that will be stripped from the beginning of the dialed string before the call is placed via the selected trunk. For example, the users will dial 9 as the first digit of a long-distance calls. However, 9 should not be sent out via analog lines and the PSTN line. In this case, one digit should be stripped before the call is placed.
prepend	0-20 alphanumeric characters or special characters +_#*	alphanumeric characters or special characters		Prepend The digits that will be prepended after the dialing number is stripped.
enable_wlist	Yes, no	no	string	Enable Filter on Source Caller ID

				Set yes to enable filter on Source Caller ID. If enabled, Caller ID must in the selected list or match Custom Dynamic Route to make outbound calls.
members		non the life of the control of the c	string	Available Extensions/Extension Groups after enabling filter on source caller ID.  If is extension group, use the id of the group. Multiple should be separated by commas:6000,6001,group-1
Successful response				
status	0	yes	int	The response is successful, status is 0
Failed response		. Seigh and the state of the st	1	
status		yes	int	Please see the error code list for more details.

update Outbound Route

## deleteOutboundRoute

The "deleteOutboundRoute" action allows users to delete an existing outbound route.

```
    Request
```

```
"request":{
    "action":"deleteOutboundRoute",
    "cookie":"sid932531770-1574674600",
    "outbound_route":"2"
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note ( )
Request paramet	er			
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
inbound_route	nse	yes with the second	string	The ID of the inbound route
Successful respo	nse	ves	int	The response is successful, status is 0.

need_apply	Yes, no	yes	string	Whether "Apply" is required for the configuration to take effect.
Failed response				
status		yes	int	Please see the error code list for more details.

deleteOutboundRoute

## **PIN Group**

#### addPinSets

The "addPinSets" allows the user to add a new PIN group.

#### o Request

#### Response

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

## updatePinSets

"updatePinSets" allow users to update an existing PIN group.

#### Response

## getPinSets

"getPinSets" allow users to retrieve details of a specific PIN group.

#### o Request

## deletePinSets

deletePinSets allows users to delete an existing PIN group

## Request

```
{
    "request":{
        "action":"deletePinSets",
        "cookie":"sid227949405-1609409802",
        "pin_sets_id":"1602745045405"
}
```

```
{
    "response":{
        "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request paramete	r			
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
member		yes	Json array	List of the PIN group members.
pin		yes	int	PIN number that will be required to dial out.
pin_name		yes	string	PIN name.
Pin_sets_id		yes	int	The ID of the Pin group.
Pin_sets_name		yes	string	The name of the Pin group.
Record_in_cdr	yes,no	no	string	Specify Whether or not to display the used PIN group and name in a call's CDR entry.
Successful respon	ise			
status	0	yes	int	The response is successful, status is 0
need_apply	Yes,no	yes	string	Whether "Apply" is required for the configuration to take effect.
members		yes	Json array	List of the members of the pin group.

Pin_sets_id		yes	int	Indicates the Pin group ID.
pin_sets_name		no	string	Indicates the pin name.
record_in_cdr	Yes,no	no	string	Indicates whether the extension is out of service
Failed response				
status		yes	int	Please see the error code list for more details.

PIN Group

#### **Inbound Route**

#### listInboundRoute

The "listInboundRoute" allows users to list the existing inbound routes such as the route's name, its permission, etc.

**Note:** The needed information, can be defined in the parameter "**options**".

#### Request

```
{
    "request":{
        "action":"listInboundRoute",
        "cookie":"sid932531770-1574674600",
        "trunk_index":"1"
    }
}
```

```
"response":{
   "inbound route":[
        {
           "account":null,
           "accout_voicemail_out_of_service": "no",
           "alertinfo":null,
            "announcement":null,
            "blocking did collect calls": "no",
            "callback":null,
            "conference":null,
            "destination_type":"byDID",
            "dialdirect": "no",
            "did_pattern_allow":"",
           "did_pattern_match":"_.",
            "did_strip":0,
            "directory":null,
            "disa":null,
            "en multi mode": "no",
            "enable_fax_detect":"no",
            "enable inbound muti mode": "no",
            "external_number":null,
            "fax":null,
            "fax_intelligent_route": "email",
           "fax intelligent route destination":null,
            "inbound mode":0,
            "inbound_muti_mode":0,
            "inbound_rt_index":1,
            "inbound suffix":null,
            "incoming prepend":null,
            "ivr":null,
            "members":[
                    "account":null,
                    "announcement":null,
                    "callback":null,
                    "conference":null,
                    "destination_type":"byDID",
                    "did strip":0,
                    "directory":null,
                    "disa":null,
                    "en_multi_mode": "no",
                    "end_hour":"",
                    "end min":"",
                    "external number":null,
                    "fax":null,
                    "inbound_mode":"0",
                    "ivr":null,
                    "mode":"",
                    "multimedia_conference":null,
                    "paginggroup":null,
                    "queue":null,
                    "ringgroup":null,
                    "sequence":"0",
                    "start hour":"",
                    "start_min":"",
                    "tc":"0",
                    "timetype":"0",
                    "vmgroup":null,
                    "voicemail":null
            "multimedia_conference":null,
            "out_of_service":"no",
            "paginggroup":null,
            "permission": "internal-local-national-international",
            "prepend_inbound_name":null,
            "prepend_inbound_name_enable":null,
            "prepend_trunk_name": "no",
            "queue":null,
            "ringgroup":null,
            "set_callerid_enable":"no",
            "set callerid name": "${CALLERID(name)}",
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
page		no	int	Retrieves all the inbound routes on the specified page.
item_num		no	int	Retrieves the maximum number of inbound routes to retrieve for the query. If unspecified, all inbound routes will be returned.
sord	acs,desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.
sidx		no	string	Sort according to the index.
trunk_index		yes	int	The ID of the trunk of which to retrieve the inbound routes of.
options	inbound_rt_index, did_pattern_match, did_pattern_allow, out_of_service	no	string	See previous comments regarding similar parameter
Successful response				
status	0	yes	int	The response is successful, status is 0
inbound_route		yes	Json array	List of inbound routes
total_item		yes	int	Total number of items that were returned.
total_page		yes	int	Total number of pages in the list.
page		yes	int	Page number that the trunks are on.
inbound_rt_index		yes	string	ID of the inbound route.
members		yes	Json array	Destination of the inbound route

did_pattern_match		no	string	Callee id pattern match mode of the inbound route All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  • [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed.  • N Any digit from 2-9.  • Wildcard, matching one or more characters.  • ! Wildcard, matching zero or more characters immediately.  • X Any digit from 0-9.  • Z Any digit from 1-9.  • Hyphen is to connect characters and it will be ignored.  • [] Contain special characters ([x], [n], [z]) represent letters x, n, z.
did_pattern_allow		no	string	Callee pattern match
out_of_service	yes, no	no	string	Indicates whether the extension is out of service
Failed response				
status		yes	int	Please see the error code list for more details.

listInboundRoute

## ddInboundRoute

The "addInboundRoute" action allows users to add and configure an inbound route for a specific trunk that needs to be defined using the "trunk\_index".

```
"request":{
    "account":"1001",
    "action": "addInboundRoute",
    "cookie": "sid1302335489-1574676590",
    "destination_type":"account",
    "dial_trunk":"no",
    "did_pattern_match":"[{\"did_pattern_match\": \"_x.\"}]",
    "did strip":"0",
    "en_multi_mode":"no",
    "enable_fax_detect": "no",
    "enable_inbound_muti_mode":"no",
    "ext_conference": "no",
    "ext_directory":"no",
    "ext_group":"no",
    "ext_local":"yes",
    "ext_paging":"no",
    "ext_queues":"no",
    "fax_intelligent_route":"email",
    "fax intelligent route destination":"1001",
    "inbound_muti_mode":"0",
    "multi_mode":"[]",
    "out_of_service":"no",
    "permission": "internal",
    "prepend_trunk_name": "no",
    "set_callerid_enable":"no",
    "set_callerid_name":"${CALLERID(name)}",
    "set_callerid_number":"${CALLERID(num)}",
    "time condition":"[]",
    "trunk index":"6",
    "voicemailgroups": "no",
    "voicemenus":"no"
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
inbound_route		yes	string	Inbound route id, which inbound route to obtain configuration from.
trunk_index		yes	int	Trunk id of inbound route
inbound_suffix		no	string	Inbound Mode Suffix Dial global inbound feature code + the inbound mode suffix(or dial inbound mode suffix) could switch the mode of the inbound route. BLF subscription inbound mode suffix can monitor inbound multiple mode.

inbound_multi_mode		no	string	Inbound mode
permission	Internal, local, national, international	no	string	Inbound permission Internal, local, national, international.
enable_inbound_muti_mode		no	string	Inbound multiple mode Can be configured in the "Inbound Routes" page. If enabled, the global inbound mode will be used. Otherwise, the default mode will be used.
set_callerid_number		no	string	Configure the pattern-matching format to manipulate the numbers of incoming callers or to set a fixed callerID number for calls that go through this inbound route.  • \${CALLERID(num)}: Default value which indicates the number of an incoming caller (CID). The CID will not be modified.  • \${CALLERID(num):n}: Skips the first n characters of a CID number, where n is a number.  • \${CALLERID(num):-n}: Takes the last n characters of a CID number, where n is a number.  • \${CALLERID(num):s:n}: Takes n characters of a CID number starting from s+1, where n is a number and s is a character position (e.g. \${CALLERID(num):2:7} takes 7 characters after the second character of a CID number.  • n\${CALLERID(num)}: Prepends n to a CID number, where n is a number.
set_callerid_name			string	Configure the pattern-matching format to customize the callerID name of incoming callers.  • \${CALLERID(name)}: Default value which indicates the name of an incoming caller.  • A\${CALLERID(name)}B: Prepends the character "A" and appends the character "B" to \${CALLERID(name)}.  Using a string instead of the pattern-matching syntax will set a fixed name to incoming callers.
set_callerid_enable	yes, no	no	string	Manipulate Caller ID (CID) name and/or number within the call flow.
out_of_service	yes, no	no	string	Whether to disable this inbound route
prepend		no	string	Prepend  Those digits will be prepended after the dialing number is stripped.
enable_wlist	yes, no	no	string	Enable Filter on Source Caller ID  Set to yes to enable filter on Source Caller ID. If enabled, Caller ID must in the selected list or match Custom Dynamic Route to make outbound calls.
incoming_prepend		no	string	Prepend  Those digits will be prepended after the dialing number is stripped.

alertinfo		no	string	Alert info
did_strip		no	string	Strip  Specify the number of digits that will be stripped from the beginning of the dialed string before the call is placed via the selected trunk. For example, the users will dial 9 as the first digit of a long distance calls. However, 9 should not be sent out via analog lines and the PSTN line. In this case, one digit should be stripped before the call is placed.
callback		no	string	Default destination-callback
external_number		no	string	Default destination- external number
directory		no	string	Default destination-dial by name
disa		no	string	Default destination-DISA
fax		no	string	Default destination-Fax
paginggroup		no	string	Default destination-paging/intercom group
queue		no	string	Default destination-Queues
ringgroup		no	string	Default destination-ring group
ivr		no	string	Default destination-IVR
vmgroup		no	string	Default destination-voicemail group
conference		no	string	Default destination-conference rooms
voicemail		no	string	Default destination-voicemail
account		no	string	Default destination-extension
prepend_trunk_name	yes, no	no	string	Prepend trunk name
destination_type		no	string	Default destination
did_pattern_allow		no	string	<ul> <li>All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:</li> <li>[12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed.</li> <li>N Any digit from 2-9.</li> <li> Wildcard, matching one or more characters.</li> <li>! Wildcard, matching zero or more characters immediately.</li> <li>X Any digit from 0-9.</li> <li>Z Any digit from 1-9.</li> </ul>

				<ul> <li> Hyphen is to connect characters and it will be ignored.</li> <li>[] Contain special characters ([x], [n], [z]) represent letters x, n, z.</li> </ul>
did_pattern_match		yes	string	All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  • [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed.  • N Any digit from 2-9.  • Wildcard, matching one or more characters.  • ! Wildcard, matching zero or more characters immediately.  • X Any digit from 0-9.  • Z Any digit from 1-9.  • Hyphen is to connect characters and it will be ignored.  • [] Contain special characters ([x], [n], [z]) represent letters x, n, z.  Multiple patterns should be separated by commas. For example the patterns are _1xx, _2xx, the configuration should be:  "did_pattern_allow": "_1xx,_2xx"
seamless_transfer_did_white list		no	string	Extension list allowed to seamless transfer.  Allows the selected extension to use this function. If an extension is busy, and a mobile phone is bound to that extension, the mobile phone can pick up calls to that extension.
ext_directory	yes, no	no	string	Dial by name, add at least one destination for the did destination.
ext_paging	yes, no	no	string	Paging/intercom group, add at least one destination for the did destination.
ext_group	yes, no	no	string	Ring group, add at least one destination for the did destination.
ext_queues	yes, no	no	string	Queues, add at least one destination for the did destination.
ext_conference	yes, no	no	string	Conference room, add at least one destination for the did destination.
voicemenus	yes, no	no	string	IVR, add at least one destination for the did destination.
voicemailgroups	yes, no	no	string	Voicemail groups, add at least one destination for the did destination.
ext_fax	yes, no	no	string	Fax, add at least one destination for the did destination
ext_local	yes, no	yes	string	extensions, add at least one destination for the did

				destination.
dial_trunk	yes, no	no	string	Dial trunk
multi_mode		yes	Json obj	Mode1
time_condition		yes	Json obj	Time condition
blocking_did_collect_calls	yes, no	no	string	Block Collect Calls  If enabled, collect calls will be blocked. Otherwise calls will be dealt as normal calls.  Note: Collect calls are indicated by the header "P-Asserted-Service-Info: service-code=Backward Collect Call, P-Asserted-Service-Info: service-code=Collect Call".
Successful response				
status	0	yes	int	The response is successful, status is 0.
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect.
Failed response				
status		yes	int	Please see the error code list for more details.

add In bound Route

# getInboundRoute

The "getInboundRoute" action allows users to get information about a specific inbound route.

## Request

```
{
    "request":{
        "action":"getInboundRoute",
        "cookie":"sid1148042340-1574781519"
}
```

```
"response": {
    "inbound did destination":{
       "dial_trunk": "yes",
        "ext_conference":"yes",
        "ext_directory":"yes",
        "ext_fax":"yes",
        "ext_group":"yes",
        "ext local": "yes",
        "ext_multimedia_conference":"yes",
        "ext_paging":"yes",
        "ext_queues":"yes",
        "inbound_rt_index":1,
        "voicemailgroups": "yes",
        "voicemenus":"yes"
    },
    "inbound_routes":{
        "account":null,
        "accout_voicemail_out_of_service":"no",
        "alertinfo":null,
        "announcement":null,
        "blocking_did_collect_calls": "no",
        "callback":null,
        "conference":null,
        "destination type": "byDID",
        "dialdirect": "no",
        "did_pattern_allow":"",
        "did_pattern_match":"_.",
        "did strip":0,
        "directory":null,
        "disa":null,
        "en multi mode": "no",
        "enable_fax_detect": "no",
        "enable inbound muti mode": "no",
        "external number":null,
        "fax":null,
        "fax_intelligent_route":"email",
        "fax_intelligent_route_destination":null,
        "inbound muti mode":0,
        "inbound_rt_index":1,
        "inbound_suffix":null,
        "incoming_prepend":null,
        "ivr":null,
        "multimedia_conference":null,
        "out of service": "no",
        "paginggroup":null,
        "permission": "internal-local-national-international",
        "prepend_inbound_name":null,
        "prepend_inbound_name_enable":null,
        "prepend_trunk_name": "no",
        "queue":null,
        "ringgroup":null,
        "seamless_transfer_did_whitelist":"",
        "set_callerid_enable":"no",
        "set callerid name": "${CALLERID(name)}",
        "set callerid number": "${CALLERID(num)}",
        "trunk_index":1,
        "vmgroup":null,
        "voicemail":null
"status":0
```

Key Word	Value	Mandatory	Туре	Note
Request Parameter				

cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
inbound_route		yes	string	The ID of the inbound route
Successful response				
status	0	yes	int	The response is successful, status is 0
inbound_routes		yes	Json obj	Configuration of the specified inbound route
inbound_suffix		no	string	Inbound Mode Suffix  The suffix of the inbound route. Dialing the global inbound mode feature code + this suffix will toggle the route's inbound mode. BLF subscription inbound mode suffix can monitor inbound multiple mode.
inbound_multi_mode		no	string	The current inbound mode of the inbound route.
permission	Internal, local, national, international	no	string	Privilege Level.  Permission level of incoming calls when they are routed to other trunks. This must be equal to or higher than the destination trunk's Privilege Level for calls to be routed successfully.
enable_inbound_muti_mode		no	string	Inbound multiple mode  Displays whether this route
set_callerid_number		no	string	Configure the pattern-matching format to manipulate the numbers of incoming callers or to set a fixed CallerID number for calls that go through this inbound route  • \${CALLERID(num)}: Default value which indicates the number of an incoming caller (CID). The CID will not be modified.  • \${CALLERID(num):n}: Skips the first n characters of a CID number, where n is a number.  • \${CALLERID(num):-n}: Takes the last n characters of a CID number, where n is a number.  • \${CALLERID(num):s:n}: Takes n characters of a CID number starting from s+1, where n is a number and s is a character position (e.g. \${CALLERID(num):2:7} takes 7 characters after the second character of a CID number).

				• n\${CALLERID(num)}: Prepends n to a CID number, where n is a number.
set_callerid_name			string	Configure the pattern-matching format to customize the CallerID name of incoming callers.  • \${CALLERID(name)}: Default value which indicates the name of an incoming caller.  • A\${CALLERID(name)}B: Prepends the character "A" and appends the character "B" to \${CALLERID(name)}.  Using a string instead of the pattern-matching syntax will set a fixed name to incoming callers.
set_callerid_enable	yes, no	no	string	Set CallerID Info Displays whether the route will manipulate the CID information of incoming calls based on set_callerid_number and set_callerid_name.
out_of_service	yes, no	no	string	Indicates whether the extension is out of service
prepend		no	string	Prepend The digits to add to the beginning of a dialed number before actually making the call.
alertinfo		no	string	Alert info
callback		no	string	The number configured for callback when selected as Default Destination.
external_number		no	string	The number configured for external number when selected as Default Destination.
directory		no	string	The number configured for dial by name when configured as Default Destination.
disa		no	string	Default destination-DISA
fax		no	string	Default destination-Fax
paginggroup		no	string	Default destination-paging/intercom group
queue		no	string	Default destination-Queues
ringgroup		no	string	Default destination-ring group
ivr		no	string	Default destination-IVR
vmgroup		no	string	Default destination-voicemail group

conference		no	string	Default destination-conference rooms
voicemail		no	string	Default destination-voicemail
account		no	string	Default destination-extension
prepend_trunk_name	yes, no	no	string	Prepend trunk name
destination_type		no	string	Default Destination The destination that incoming calls will be routed to.
did_pattern_allow		no	string	callerID pattern  All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  N Any digit from 2-9.  N Wildcard, matching one or more characters.  Multiple patterns is to connect characters and it will be ignored.  Contain special characters ([x], [n], [z]) represent letters x, n, z.  Multiple patterns should be separated by commas. For example the patterns are123,234, the configuration should be: "did_pattern_allow":"_123,234"
did_pattern_match		yes	string	All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  • [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed.  • N Any digit from 2-9.  • Wildcard, matching one or more characters.  • ! Wildcard, matching zero or more characters immediately.  • X Any digit from 0-9.  • Z Any digit from 1-9.  • Hyphen is to connect characters and it will be ignored.  • [] Contain special characters ([x], [n], [z]) represent letters x, n, z.  Multiple patterns should be separated by commas. For example the patterns are _1xx, _2xx, the configuration should be:  "did_pattern_allow":"_1xx,_2xx"

trunk_index		yes	string	ID of the trunk associated with the inbound route.
seamless_transfer_did_whitelist		no	string	List of extensions allowed to seamless transfer. Allows the selected extension to use this function. If an extension is busy, and a mobile phone is bound to that extension, the mobile phone can pick up calls to that extension.
inbound_did_destination		yes	Json obj	Allowed DID Destination  Extension types that incoming calls can be routed to when "By DID" is selected for Default Destination
ext_directory		no	string	Dial by name
ext_paging		no	string	Paging/intercom group
ext_group		no	string	Ring group
ext_queues		no	string	queues
ext_conference		no	string	Conference room
voicemenus		no	string	IVR
voicemailgroups		no	string	Voicemail groups
ext_fax		no	string	Fax
ext_local		no	string	extensions
dial_trunk	yes, no	no	string	Dial trunk
blocking_did_collect_calls	yes, no	no	string	Block collect calls Indicates whether or not collect calls will be blocked.  Note: Collect calls are indicated by the header "P-Asserted-Service-Info: service- code=Backward Collect Call, P-Asserted- Service-Info: service-code=Collect Call".
Failed response				

getInboundRoute

# update Inbound Route

The "updateInboundRoute" action allows users to update an existing inbound route.

```
{
    "request":{
        "account":"1001",
        "action":"updateInboundRoute",
        "cookie":"sid1058050971-1574689082",
        "destination_type":"account",
        "inbound_route":"3"
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note
Request Parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
inbound_route		yes	string	The ID of the inbound route
inbound_suffix		no	string	Inbound Mode Suffix  The suffix of the inbound route. Dialing the global inbound mode feature code + this suffix will toggle the route's inbound mode. BLF subscription inbound mode suffix can monitor inbound multiple mode.
inbound_multi_mode		no	string	The current inbound mode of the inbound route.
permission	Internal, local, national, international	no	string	Privilege Level.  Permission level of incoming calls when they are routed to other trunks. This must be equal to or higher than the destination trunk's Privilege Level for calls to be routed successfully.
enable_inbound_muti_mode		no	string	Inbound multiple mode  Displays whether this route
set_callerid_number		no	string	Configure the pattern-matching format to manipulate the numbers of incoming callers or to set a fixed CallerID number for calls that go through this inbound route  • \${CALLERID(num)}: Default value which indicates the number of an incoming

				<ul> <li>caller (CID). The CID will not be modified.</li> <li>\${CALLERID(num):n}: Skips the first n characters of a CID number, where n is a number.</li> <li>\${CALLERID(num):-n}: Takes the last n characters of a CID number, where n is a number.</li> <li>\${CALLERID(num):s:n}: Takes n characters of a CID number starting from s+1, where n is a number and s is a character position (e.g. \${CALLERID(num):2:7} takes 7 characters after the second character of a CID number).</li> <li>n\${CALLERID(num)}: Prepends n to a CID number, where n is a number.</li> </ul>
set_callerid_name			string	Configure the pattern-matching format to customize the CallerID name of incoming callers.  • \${CALLERID(name)}: Default value which indicates the name of an incoming caller.  • A\${CALLERID(name)}B: Prepends the character "A" and appends the character "B" to \${CALLERID(name)}.  Using a string instead of the patternmatching syntax will set a fixed name to incoming callers.
set_callerid_enable	yes, no	no	string	Set callerID info Manipulate Caller ID (CID) name and/or number within the call.
out_of_service	yes, no	no	string	Whether to disable the inbound route.
prepend		no	string	Prepend Those digits will be prepended after the dialing number is stripped.
enable_wlist	yes, no	no	string	Enable Filter on Source Caller ID  Set to yes to enable filter on Source Caller ID. If enabled, Caller ID must in the selected list or match Custom Dynamic Route to make outbound calls.
incoming_prepend		no	string	Prepend Those digits will be prepended after the dialing number is stripped.
alertinfo		no	string	Alert info
did_strip		no	string	Strip Specify the number of digits that will be stripped. For example, the users will dial 9 as the first digit of a long-distance calls. However, 9 should not be sent out via analog lines and the PSTN line. In this case, one digit should be stripped before the call is placed.

callback		no	string	The number configured for callback when selected as Default Destination.
external_number		no	string	The number configured for external number when selected as Default Destination.
directory		no	string	Default destination-dial by name
disa		no	string	Default destination-DISA
fax		no	string	Default destination-Fax
paginggroup		no	string	Default destination-paging/intercom group
queue		no	string	Default destination-Queues
ringgroup		no	string	Default destination-ring group
ivr		no	string	Default destination-IVR
vmgroup		no	string	Default destination-voicemail group
conference		no	string	Default destination-conference rooms
voicemail		no	string	Default destination-voicemail
account		no	string	Default destination-extension
prepend_trunk_name	yes, no	no	string	Prepend trunk name
destination_type		no	string	Default Destination The destination that incoming calls will be routed to.
did_pattern_allow		no	string	callerID pattern  All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  N Any digit from 2-9.  N Wildcard, matching one or more characters.  I Wildcard, matching zero or more characters immediately.  X Any digit from 0-9.  Z Any digit from 1-9.  Hyphen is to connect characters and it will be ignored.  Il Contain special characters ([x], [n], [z]) represent letters x, n, z.  Multiple patterns should be separated by commas. For example the patterns are123, _234, the configuration should be: "did_pattern_allow":"_123,_234"

did_pattern_match		yes	string	All patterns are prefixed by "_" character, but please do not enter more than one "_" at the beginning. All patterns can add comments, such as "_pattern /* comment */". In patterns, some characters have special meanings:  • [12345-9] Any digit in the brackets. In this example, 1,2,3,4,5,6,7,8,9 are allowed.  • N Any digit from 2-9.  • Wildcard, matching one or more characters.  •! Wildcard, matching zero or more characters immediately.  • X Any digit from 0-9.  • Z Any digit from 1-9.  • Hyphen is to connect characters and it will be ignored.  • [] Contain special characters ([x], [n], [z]) represent letters x, n, z.  Multiple patterns should be separated by commas. For example the patterns are _1xx, _2xx, the configuration should be:  "did_pattern_allow":"_1xx,_2xx"
seamless_transfer_did_whitelist		no	string	List of extensions allowed to seamless transfer. Allows the selected extension to use this function. If an extension is busy, and a mobile phone is bound to that extension, the mobile phone can pick up calls to that extension.
ext_directory		no	string	Dial by name
ext_paging		no	string	Paging/intercom group
ext_group		no	string	Ring group
ext_queues		no	string	queues
ext_conference		no	string	Conference room
voicemenus		no	string	IVR
voicemailgroups		no	string	Voicemail groups
ext_fax		no	string	Fax
ext_local		no	string	extensions
dial_trunk	yes, no	no	string	Dial trunk
multi_mode		yes	Json obj	Mode1
time_condition		yes	Json obj	Time condition

blocking_did_collect_calls	yes, no	no	string	Block collect calls Indicates whether or not collect calls will be blocked.  Note: Collect calls are indicated by the header "P-Asserted-Service-Info: service- code=Backward Collect Call, P-Asserted- Service-Info: service-code=Collect Call".		
Successful response	Successful response					
status	0	yes	int	The response is successful, status is 0		
need_apply	Yes, no	yes	string	Whether "Apply" is required for the configuration to take effect		
Failed response						
status		yes	int	Please see the error code list for more details.		

updateInboundRoute

## deleteInboundRoute

The "deleteInboundRoute" action allows users to delete an existing inbound route.

## Request

```
{
    "request":{
        "action":"deleteInboundRoute",
        "cookie":"sid1058050971-1574689082",
        "inbound_route":"3"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
outbound_route		yes	string	The id of the outbound route, which configuration of the outbound route is obtained		

Successful response				
status	0	yes	int	The response is successful, status is 0.
Failed response				
status		yes	int	Please see the error code list for more details.

deleteInboundRoute

## **Inbound Route Blacklist**

## listInboundBlacklist

Query the basic information for the PBX inbound route blacklist, such as blacklist number and range

## Request

Parameters	Mandatory	Туре	Description
Cookie	Yes	String	This is the return value after login. All requests need to carry this value.  If no cookie is included, error code -6 will be returned
Sord	No	String	Sorting rule.  Range:  asc: ascending desc: descending default: asc
Sidx	No	String	Sort by this string. Range:  • number: blacklist by number
Page	No	String	Obtain blacklist by page (define which page).
ltem_num	No	String	Define how many members to return in each query. If not specified, all members will be returned.

## o **Response**: successful

Parameter	Туре	Description
status	Integer	If response is successful, status is 0.
number	String	Blacklist number
inbound_rt_index	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.  • 0: all inbound route. • Existing inbound route id.

total_item	Integer	Total number of inbound route blacklist.
total_page	Integer	Total number of pages.
page	Integer	Page number
total_blacklist_item	Integer	Total number of pages.

#### o Response: failed

Parameter	Туре	Description
status	Integer	See error code.

#### **Example:**

#### Request

Query inbound route blacklist:

```
{
    "request":{
        "action":"listInboundBlacklist",
        "cookie":"sid323724187-1655780813"
}
```

#### o Response

## deleteAllInboundBlacklist

Delete PBX's all inbound route blacklist

#### o Request

Parameter	Mandatory	Туре	Description
cookie	yes	String	This is the return value after login. All requests need to carry this value. If no cookie is included, error code -6 will be returned

## o **Response:** successful

Parameter	Туре	Description
Status	Integer	If response is successfull, status is 0
need_apply	String	Whether to require "apply" to make configuration take effect.  Range:  yes no

## o Response: failed

Parameter	Туре	Description	
status	Integer	See error code.	

## **Example:**

#### • Request:

```
{
    "request":{
        "action":"deleteAllInboundBlacklist",
        "cookie":"sid323724187-1655780813"
    }
}
```

#### o Response:

#### deleteInboundBlacklist

Delete IPPBX's specific inbound route blacklist.

## Request

Parameter	Mandatory	Туре	Description	
cookie yes String		String	This is the return value after login. All requests need to carry this value. If no cookie is included, error code -6 will be returned.	
number	yes	String	Blacklist number	

#### o Response: Successful

Parameter	Туре	Description
Status	Integer	If response is successfull, status is 0
need_apply	String	Whether to require "apply" to make configuration take effect.  Range:  yes no

### o Response: Failed

Parameter	Туре	Description
status	Integer	See error code.

#### Example:

Delete number "123" from inbound route blacklist.

#### o Request

```
{
    "request":{
        "action":"deleteInboundBlacklist",
        "number":"123",
        "cookie":"sid323724187-1655780813"
}
```

#### o Response

## addInboundBlacklist

Add inbound route blacklist and configure related information such as blacklist number and range.

Parameter	Mandatory	Туре	Description
cookie	yes	String	This is the return value after login. All requests need to carry this value. If no cookie is included, error code -6 will be returned.
number	yes	String	Blacklist number
inbound_rt_index	yes	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.

#### • 0: all inbound route.

• Existing inbound route id.

## o **Response:** Successful

Parameter	Туре	Description
status	Integer	If response is successful, status is 0.
number	String	Blacklist number
inbound_rt_index	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.  • 0: all inbound route. • Existing inbound route id.
total_item	Integer	Total number of inbound route blacklist.
total_page	Integer	Total number of pages.
page	Integer	Page number
total_blacklist_item	Integer	Total number of pages.

#### o Response: Failed

Parameter	Туре	Description	
status	Integer	See error code.	

### Example:

#### o Request

Add blacklist 123 and configure the range to take effect. For example, to specify the inbound route to take effect, please use listInboundRoute interface to obtain inbound route id first.

```
{
    "request":{
        "action":"addInboundBlacklist",
        "inbound_rt_index":" ****get by listInboundRoute**** ",
        "number":"123",
        "cookie":"sid323724187-1655780813"
    }
}
```

### o Response: Successful

## update Inbound Black list

Modify inbound route blacklist and the range to take effect.

#### Request

Parameter	Mandatory	Туре	Description
cookie	yes	String	This is the return value after login. All requests need to carry this value. If no cookie is included, error code -6 will be returned.
number	yes	String	Blacklist number
inbound_rt_index	yes	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.  • 0: all inboud route. • Existing inbound route id.

## o Response: Successful

Parameter	Туре	Description
status	Integer	If response is successful, status is 0.
number	String	Blacklist number
inbound_rt_index	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.  • 0: all inbound route. • Existing inbound route id.
total_item	Integer	Total number of inbound route blacklist.
total_page	Integer	Total number of pages.
page	Integer	Page number
total_blacklist_item	Integer	Total number of pages.

## o Response: Failed

Parameter	Туре	Description	
status	Integer	See error code.	

#### **Example:**

#### Request

Modify blacklist number 123 effective range. Please use list InboundRoute interface to obtain inbound route id first.

```
{
    "request":{
        "action":"updateInboundBlacklist",
        "inbound_rt_index":" ****get by listInboundRoute**** ",
        "number":"123",
        "cookie":"sid323724187-1655780813"
}
```

## o Response

# get In bound Black list Settings

Get inbound route blacklist settings, i.e., whether to use blacklist.

#### o Request

Parameter	Mandatory	Туре	Description
cookie	yes	String	This is the return value after login. All requests need to carry this value. If no cookie is included, error code -6 will be returned.

#### o Response: Successful

Parameter	Туре	Description
status	Integer	If response is successful, status is 0.
number	String	Blacklist number
inbound_rt_index	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.  • 0: all inbound route. • Existing inbound route id.
total_item	Integer	Total number of inbound route blacklist.
total_page	Integer	Total number of pages.
page	Integer	Page number
total_blacklist_item	Integer	Total number of pages.

Parameter	Туре	Description
status	Integer	See error code.

#### **Example:**

Get inbound route blacklist settings, i.e., whether a blacklist is enabled or not.

### • Request:

```
{
    "request":{
        "action":"getInboundBlacklistSettings",
        "cookie":"sid323724187-1655780813"
    }
}
```

# o Response:

# pdate Inbound Black list Settings

Modify inbound route blacklist settings, i.e., whether to enable a blacklist.

#### o Request

Parameter	Mandatory	Туре	Description
cookie	yes	String	This is the return value after login. All requests need to carry this value. If no cookie is included, error code -6 will be returned.
number	yes	String	Blacklist number
inbound_rt_index	yes	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.  • 0: all inbound route. • Existing inbound route id.

# o **Response:** Successful

Parameter	Туре	Description
status	Integer	If response is successful, status is 0.
number	String	Blacklist number

inbound_rt_index	String	Range. Enter inbound route id. If inbound route id is 0, it means all inbound route will take effect.  • 0: all inbound route. • Existing inbound route id.
total_item	Integer	Total number of inbound route blacklist.
total_page	Integer	Total number of pages.
page	Integer	Page number
total_blacklist_item	Integer	Total number of pages.

### o Response: Failed

Parameter	Туре	Description
status	Integer	See error code.

### **Example:**

#### o Request

```
{
    "request":{
        "action":"updateInboundBlacklistSettings",
        "enable":"yes",
        "cookie":"sid323724187-1655780813"
    }
}
```

### o Response

# playPromptByOrg

 $\label{thm:playPromptByOrg"} The \ "playPromptByOrg" \ actions \ allows \ to \ play \ the \ selected \ prompt \ in \ the \ configured \ extension.$ 

### o Request

```
{
    "request":{
        "action":"playPromptByOrg",
        "channel":"1000",
        "cookie":"sid1863069817-1574933211",
        "type":"ivr"
        "variable":"prompt1"
    }
}
```

# o Response

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note				
Request parameter	Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
type	ivr, name_ voice, moh	yes	string	Type of audio prompt to play.  • ivr: Custom prompt uploaded to IVR.  • name_voice: Username prompt for an extension  • moh: Music on Hold file				
channel		yes	string	Extension to send the prompt to. Example: If set to 6000, extension 6000 will ring, and the prompt will play upon answering the call				
variable		yes	string	File name of the audio prompt File extension is not necessary. The audio prompt should exist under the specified type.				
class		no	string	Music on Hold Playlist If "moh" is selected as type, enter the MoH playlist name. If unspecified, the Default playlist will be used.				
Successful response	Successful response							
status	0	yes	int	The response is successful, status is 0.				
Failed response	Failed response							
status		yes	int	Please see the error code list for more details.				

playPromptByOrg

# **Voice Call**

# listBridgedChannels

The "listBridgedChannels" action will list the bridged channels.

Request

```
"request":{
     "action":"listBridgedChannels",
     "cookie":"sid95569340-1574692824"
}
}
```

```
"response":{
    "channel":[
       {
            "bridge_id":"7f12ed1a-f03d-4575-a4cb-f986f864c2a2",
           "bridge_time":"2019-11-25 09:43:19",
           "callerid1":"1001",
           "callerid2":"1000",
           "channel1": "PJSIP/1001-00000002",
           "channel2": "PJSIP/1000-00000003",
           "have send":1,
           "inbound_trunk_name":"",
           "name1":"1001",
            "name2":"",
            "outbound_trunk_name":"",
            "uniqueid1":"1574692996.4",
            "uniqueid2":"1574692996.5"
       }
   ],
   "page":1,
   "total_item":1,
   "total_page":1
},
"status":0
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
Successful response							
status	0	yes	int	The response is successful, status is 0.			
total_item			int	Current number of established calls.			
page			int	Current page is on.			
channel			Json array	Detailed list of currently established calls.			
channel1			string	The calling channel. If the call is from an extension, the extension number will be displayed. If the call originated from an external source instead, the trunk ID will be displayed instead.			

				This channel name will be used for call control commands.	
channel2			string	The called channel. If the call is from an extension, the extension number will be displayed. If the call originated from an external source instead, the trunk ID will be displayed instead.  This channel name will be used for call control commands.	
callerid1			string	Calling number	
callerid2			string	Called number	
uniqueid1			string	Calling channel identifier	
uniqueid2			string	Called channel identifier	
bridge_time			string	Duration of the call starting from the time the call was answered.	
name1			string	Caller's name	
name2			string	Callee's name	
bridge_id			string	Bridge ID	
inbound_trunk_name			string	Name of the trunk used for the inbound call. If the call is outbound, this field will be empty.	
outbound_trunk_name			string	Name of the trunk used for the outbound call. If the call is inbound, this field will be empty.	
Failed response					
status		yes	int	Please see the error code list for more details.	

listBridgedChannels

# listUnBridgedChannels

The "listUnBridgedChannels" action allows users to list the unbridged channels.

### Request

```
{
"request":{
  "action":"listUnBridgedChannels",
  "cookie":"sid624909538-1574783406"
}
```

```
{
"response":{
"channel":[],
"page":1,
"total_item":0,
"total_page":1
},
"status":0
```

Key Word	Value	Mandatory	Туре	Note				
Request parameter								
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
Successful response	Successful response							
status	0	yes	int	The response is successful, status is 0.				
total_item			int	Current number of established calls.				
page			int	Current page is on.				
channel			Json array	Detailed list of currently established calls.				
channel			string	The calling channel. If the call is from an extension, the extension number will be displayed. If the call originated from an external source instead, the trunk ID will be displayed instead.  This channel name will be used for call control commands.				
state			string	Channel status(Up, Ringing)				
service			string	Channel type(macro-dial, queue)				
callername			string	Caller name				
callernum			string	Caller number				
connectednum			string	Connected number(when the channel is not bridged, display s)				
connectedname			string	Connected name				
alloc_time			string	Channel change time(the first one is channel establish time)				
inbound_trunk_name			string	The name of trunk from where the unanswered incoming call originated.				

outbound_trunk_name		string	The name of the trunk used for the unanswered outgoing call.
Failed response			
status	yes	int	Please see the error code list for more details.

listUnBridgedChannels

# Hangup

The "Hangup" action allows users to end an active call.

# Request

```
{
"request":{
"action":"Hangup",
"channel":"PJSIP/4000-00000084",
"cookie":"sid1926227010-1576858973"
}
}
```

```
{
"response":{
"need_apply":"yes"
},
"status":0
}
```

Key Word	Value	Mandatory	Туре	Note				
Request parameter	Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
channel		yes	string	The channel of the call to hang up. This information can be obtained by using the listBridgeChannels command.				
Successful response	e							
status	0	yes	int	The response is successful, status is 0.				
Failed response								
status		yes	int	Please see the error code list for more details.				

# Callbarge

The "Callbarge" action allows users to barge into an ongoing call.

# Request

```
{
"request":{
"action":"callbarge ",
"barge-exten":"4002",
"channel":"PJSIP/4003-00000087",
"cookie":"sid1926227010-1576858973",
"exten":"4003" }
}
```

```
{
"response":{
"need_apply":"yes"
},
"status":0
}
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter	Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
channel		yes	string	The channel to monitor			
exten		yes	string	The extension that will monitor the call.			
mode		yes	string	<ul> <li>Null: Only listen in on the call. No parties will be able to hear you.</li> <li>W: Talk to the extension being monitored. The other party will not hear you.</li> <li>B: Join in on the call. Both parties will be able to hear and talk to you.</li> </ul>			
barge-exten		yes	string	Specify whether to request permission from an extension before monitoring its call. Request permission: @1 Don't request permission: @0 Example: To request permission from extension 2002 permission to monitor its ongoing call, enter 2002@1			
Successful response	Successful response						
status	0	yes	int	The response is successful, status is 0.			
Failed response	Failed response						

status yes	int	Please see the error code list for more details.
------------	-----	--

Callbarge

#### Mute

Mute the extension through this interface. That is, the remote party of the extension cannot hear the extension, and the extension can hear the voice of the other party. To unmute, use the unmute interface. The extension will also be automatically unmuted after the call ends.

```
Request
```

```
{
"request": {
"action": "mute",
"cookie": "sid612583207-1551962142",
"channel": "PJSIP/2000-00000013",
}
```

#### Response

```
"response": {},
"status": 0
```

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Key Word	Value	Mandatory	Туре	Note
Request parameter	·	A Political de la Contraction		The life of the li
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
channel		yes	string	The channel to be muted
Successful respons	e	A STATE OF THE STA		Market and the state of the sta
status	0	yes	int	The response is successful, status is 0.
Failed response		'		
status		yes	int	Please see the error code list for more details.

Mute

### **Unmute**

Unmute muted calls through the API.

o Request

```
{
"request": {
"action": "unmute",
"cookie": "sid612583207-1551962142",
"channel": "PJSIP/2000-00000013",
}
}
```

#### Response

```
{
"response": {},
"status": 0
```

Key Word	Value	Mandatory	Туре	Note				
Request parameter	Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
channel		yes	string	The channel to monitor				
Successful response	е	'						
status	0	yes	int	The response is successful, status is 0.				
Failed response								
status		yes	int	Please see the error code list for more details.				

Unmute

### Hold

This action allows users to hold the current call of the specified extension through this interface. Use unhold action if need to resume the call.

# Request

```
{
"request": {
  "action": "hold",
  "cookie": "sid612583207-1551962142",
  "channel": "PJSIP/2000-00000013",
}
```

```
{
"response": {},
"status": 0
}
```

Key Word	Value	Mandatory	Туре	Note				
Request parameter	Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
channel		yes	string	The channel to hold. Users can obtain the channel number by using the <b>listBridgeChannels</b> command.				
Successful response	e							
status	0	yes	int	The response is successful, status is 0.				
Failed response								
status		yes	int	Please see the error code list for more details.				

Hold

# Unhold

This action allows users to Resume the held call.

# Request

```
{
"request": {
"action": "unhold",
"cookie": "sid612583207-1551962142",
"channel": "PJSIP/2000-00000013",
}
}
```

```
{
"response": {},
"status": 0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				

cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
channel		yes	string	The channel to resume a held call.		
Successful response	е	'				
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

Unhold

### DialExtension

This action allows users to dial a local extension.

### Request

```
{
    "request":{
        "action":"dialExtension",
        "callee":"1002",
        "caller":"1005",
        "cookie":"sid2035575025-1556156494"
    }
}
```

```
{
    "response":{
          "need_apply":"no"
},
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
caller		yes	string	Caller number		
Successful response	е	'				
status	0	yes	int	The response is successful, status is 0.		
need_apply	no	No	string	Whether "Apply" is required for the configuration		

			to take effect	
Failed response				
status	yes	int	Please see the error code list for more details.	

DialExtension

### **DialOutbound**

This application allows users to dial external numbers.

# Request

```
{
    "request":{
        "action":"dialOutbound",
        "outbound":"4002",
        "caller":"1005",
        "cookie":"sid2035575025-1556156494"
    }
}
```

```
{
    "request":{
        "action":"dialOutbound",
        "outbound":"4002",
        "caller":"1005",
        "cookie":"sid2035575025-1556156494"
    }
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
caller		yes	string	Caller number		
outbound		yes	string	Callee number		
Successful respons	е					
status	0	yes	int	The response is successful, status is 0.		
need_apply	no	No	string	Whether "Apply" is required for the configuration to take effect		
Failed response						
status		yes	int	Please see the error code list for more details.		

### CallTransfer

The action allows users to transfer an in-call number to another number.

#### o Request

```
{
    "request":{
        "action":"callTransfer",
        "channel":"PJSIP/1008-00000040",
        "extension":"1002",
        "cookie":"sid49474975-1556163431"
    }
}
```

### o Response

```
"response":{
          "need_apply":"no"
},
          "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
channel		yes	string	The channel that initiates the transfer.		
extension		yes	string	The transfer destination.		
Successful response	e					
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

CallTransfer

#### **TransferNumberInbound**

This action allows users to transfer an external inbound call that is ringing or in a call to another extension.

Request

```
{
    "request":{
        "action":"transferNumberInbound",
        "cookie":"sid1612261872-1556164651",
        "channel":"PJSIP/trunk_4-00000044",
        "callee":"1008"
}
```

### o Response

```
{
    "response":{
         "need_apply":"no"
    },
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
channel		yes	string	Channel of the inbound call.		
callee		yes	string	The destination that the caller will be transferred to.		
Successful respons	e	1				
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

TransferNumberInbound

### **TransferNumberOutbound**

This action allows users to transfer the caller of an unanswered or ongoing outbound call to another destination

### Request

```
{
    "request":{
        "action":"transferNumberOutbound",
        "cookie":"sid1612261872-1556164651",
        "channel":"PJSIP/1008-00000048",
        "outbound":"4002"
    }
}
```

# o Response

```
{
    "response":{
         "need_apply":"no"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
channel		yes	string	Channel of the outbound call.		
outbound		yes	string	The destination that the caller will be transferred to.		
Successful response	e					
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

**TransferNumberOutbound** 

# **DiallVR**

This action allows users to dial another extension via IVR.

# Request

```
{
    "request":{
        "action":"dialIVR",
        "cookie":"sid806817679-1556171969",
        "caller":"1002",
        "ivrnumber":"7000"
}
```

```
{
    "response":{
         "need_apply":"no"
},
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
caller		yes	string	The internal extension that will be used to dial other extensions via the IVR specified for the ivrnumber parameter.		
ivrnumber		yes	string	IVR number.		
Successful response	e					
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

# DialIVR

# **DiallVROutbound**

nis action will allow users to dial an external number via IVR.

### Request

```
{
    "request":{
        "action":"dialIVROutbound",
        "cookie":"sid806817679-1556171969",
        "outcaller":"4005",
        "ivrnumber":"7000"
    }
}
```

```
{
    "response":{
         "need_apply":"no"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error

				code -6 will be returned.	
caller		yes	string	The internal extension that will be used to dial external numbers via the IVR specified for the ivrnumber parameter.	
ivrnumber		yes	string	IVR number.	
Successful response	e				
status	0	yes	int	The response is successful, status is 0.	
Failed response					
status		yes	int	Please see the error code list for more details.	

DialIVROutbound

# **DialQueue**

This action allows users to dial into a queue's extension.

### o Request

```
{
    "request":{
        "action":"dialQueue",
        "cookie":"sid1772490686-1556173837",
        "outcaller":"4005",
        "queue":"6500"
}
```

```
{
    "response":{
          "need_apply":"no"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note	
Request parameter					
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.	
outcaller		yes	string	Caller number (external extension)	
queue		yes	string	Call Queue number	
Successful response					

status	0	yes	int	The response is successful, status is 0.	
Failed response					
status		yes	int	Please see the error code list for more details.	

DialQueue

# DialRinggroup

This action allows users to dial into a ring group's extension.

# Request

```
{
    "request":{
        "action":"dialRinggroup",
        "cookie":"sid1772490686-1556173837",
        "outcaller":"4005",
        "ringgroup":"6500"
    }
}
```

```
{
    "response":{
         "need_apply":"no"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
outcaller		yes	string	Caller number (external extension)		
ringgroup		yes	string	Ring Group number		
Successful response	e					
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

# DialOutboundTwo

This action allows users to call between two external extensions.

#### o Request

```
{
    "request":{
        "action":"dialOutboundTwo",
        "cookie":"sid1772490686-1556173837",
        "outcaller":"4005",
        "outcallee":"1506"
    }
}
```

#### o Response

```
{
    "response":{
         "need_apply":"no"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
outcaller		yes	string	Caller number (external extension)		
outcallee		yes	string	Callee number(external extension)		
Successful response	е					
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

DialOutboundTwo

#### refuseCall

This action allows users to reject an inbound call and this is doable if the "Call Control option" is enabled in the UCM's API Configuration page which gives a 3rd party service 10 seconds to manage incoming calls.

#### o Request

```
{
    "request": {
        "action": "refuseCall",
        "cookie": "sid612583207-1551962142",
        "channel": "PJSIP/2000-00000013"
    }
}
```

### o Response

```
"response": {},
    "status": 0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
channel		yes	string	The channel of the call to be rejected.		
Successful respons	e					
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

refuseCall

# AcceptCall

This action allows users to accept inbound calls, and this is doable if the "Call Control option" is enabled in the UCM's API Configuration page which gives a 3rd party service 10 seconds to manage incoming calls.

### Request

```
{
    "request": {
        "action": " acceptCall",
        "cookie": "sid612583207-1551962142",
        "channel": "PJSIP/2000-00000013"
    }
}
```

```
"response": {},
    "status": 0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
channel		yes	string	The channel of the call to be accepted.		
Successful response	e	'				
status	0	yes	int	The response is successful, status is 0.		
Failed response						
status		yes	int	Please see the error code list for more details.		

acceptCall

# all Queue

# listQueue

The "listQueue" action will allow users to list the available call queues such as the queue's name, the members, etc.

Note: The needed information, can be defined in the parameter "options".

#### Request

```
"request":{
    "action":"listQueue",
    "cookie":"sid226931826-1574694317",
    "options":"extension, queue_name, strategy, queue_chairmans, members",
    "sidx":"extension",
    "sord":"asc"
}
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
page		no	int	Get queue list by page number.			
sord	acs,desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.			
sidx		no	string	Sort according to the index.			
options	extension, queue_name, strategy, queue_chairmans, members	no	string	Specifies the information to retrieve for each queue. If unspecified, all information will be retrieved.			
Successful respons	e	'	<u>'</u>				
status	0	yes	int	The response is successful, status is 0.			
total_item		yes	int	Total number of items on the list			
total_page		yes	int	Total pages of the list			
page		yes	int	What page is on.			
extension		no	int	Extension number.			
queue_name		no	string	Queue name			
strategy	ringall, linear, leastrecent, fewestcalls, random, memory	no	string	Strategy     Ring All: Ring all available agents simultaneously until one agent answers.     Linear: Ring agents in the specified order.			

			<ul> <li>Least Recent: Ring the agent who has been called the least recently.</li> <li>Fewest Calls: Ring the agent with the fewest completed calls.</li> <li>Random: Ring a random agent.</li> <li>Round Robin: Ring agents using round robin schedule with memory.</li> </ul>
queue_chairman s	no	string	Queue chairman
members	V	string	Queue agents
Failed response			
status	yes	int	Please see the error code list for more details.

listQueue

# getQueue

The "getQueue" action allows users to get information about a specific call queue.

# o Request

```
{
    "request":{
          "action":"getQueue",
          "cookie":"sid226931826-1574694317",
          "queue":"6500"
}
```

```
"response": {
    "queue":{
        "account":null,
        "account_el":null,
        "account_t":null,
        "account_v":null,
        "alertinfo":null,
        "announce frequency":20,
        "announce holdtime": "no",
        "announce_position": "no",
        "announcement":null,
        "announcement el":null,
        "announcement t":null,
        "announcement_v":null,
        "auto_record":"off",
        "autofill":"yes",
        "createid":"0",
        "custom dates":null,
        "custom months":null,
        "custom_prompt":null,
        "custom_welcome_prompt":null,
        "destination_type":"voicemail",
        "destination_type_el":"playsound",
        "destination_type_t": "hangup",
        "destination_type_v":"account",
        "destination_voice_enable": "no",
        "directory":null,
        "directory_el":null,
        "directory_t":null,
        "directory_v":null,
        "email":null,
        "enable agent login": "no",
        "enable destination": "D",
        "enable feature": "no",
        "enable_welcome": "no",
        "extension":"6500",
        "external_number":null,
        "external_number_el":null,
        "external_number_t":null,
        "external_number_v":null,
        "hasvoicemail":"no",
        "ivr":null,
        "ivr el":null,
        "ivr t":null,
        "ivr_v":null,
        "joinempty": "no",
        "leavewhenempty": "strict",
        "maxlen":0,
        "members":null,
        "musicclass": "default",
        "pagingtype": "once",
        "permission": "internal",
        "pin":null,
        "queue chairman":null,
        "queue chairmans":null,
        "queue_dest":null,
        "queue_dest_el":null,
        "queue_dest_t":null,
        "queue_dest_v":null,
        "queue name": "Test",
        "queue_timeout":60,
        "queuesasvm": "no",
        "replace_caller_id": "no",
        "reportholdtime": "no",
        "retry":5,
        "ringgroup":null,
        "ringgroup_el":null,
        "ringgroup_t":null,
        "ringgroup_v":null,
        "ringtime":30,
        "schedule_clean_enable":"no",
        "starttime":null,
```

```
"strategy": "ringall",
        "tmp":null,
        "tmp2":"6500",
        "vm_extension":null,
        "vm_extension_el":null,
        "vm_extension_t":null,
        "vm_extension_v":null,
        "vmgroup":null,
        "vmgroup_el":null,
        "vmgroup_t":null,
        "vmgroup_v":null,
        "vmsecret":null,
        "voice_prompt_time":60,
        "vq_callback_enable_timeout":"no",
        "vq_callback_timeout":60,
        "vq mode": "periodic",
        "vq outprefix":null,
        "vq_periodic":20,
        "vq_switch":"no",
        "waittime":null,
        "week_date":null,
        "wrapuptime":10
"status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter		1		
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
queue		no	string	Specific queue number
Successful response				
queue_name	0	yes	string	Queue name
musicclass		yes	string	The Music on Hold playlist used by the queue.
leavewhenempty		yes	string	Configures whether to disconnect callers in queue based on agent status. There are three options:  • Yes: Callers will be disconnected from queue if all agents are paused or unavailable.  • No: Callers will never be disconnected from queue.  • Strict (Default): Callers will be disconnected from the queue if there are no agents or if all agents are unavailable or paused.
joinempty		yes	string	Configures whether callers can dial into a call queue with no agents. There are three options:  • Yes: Callers can always dial into a queue even it is empty.  2. No (Default): Callers cannot dial into a queue all agents are unavailable or paused.

				Strict: Callers cannot dial into a queue if there are no agents or if all agents are unavailable or paused.
pin		no	string	PIN for dynamic agent login. The suffix for dynamic agent login can be configured on the <b>Agent Login</b> page.
ringtime		yes	string	Ring time Configure the number of seconds to ring an agent. The minimum is 5.
strategy	ringall, linear, leastrecent, fewestcalls, random, memory	yes	string	Strategy  Ring All: Ring all available agents simultaneously until one agent answers.  Linear: Ring agents in the specified order.  Least Recent: Ring the agent who has been called the least recently.  Fewest Calls: Ring the agent with the fewest completed calls.  Random: Ring a random agent.  Round Robin: Ring agents using round robin schedule with memory.
wrapuptime		yes	string	Wrap-up time Configure the delay time (in seconds) after a completed call before a new call will ring. If set to 0, there will be no delay between call completion and a new call.
maxlen		yes	string	Max Queue Length Configure the maximum number of calls to be queued at once. This number does not include calls that have been connected to agents, only calls that are still in queue. When this maximum value is exceeded, the caller will hear a busy tone and be forwarded to the configured failover destination. Default value is 0 (unlimited).
reportholdtime	yes, no	no	string	Report wait time If enabled, the wait time of the caller will be shown to the agent before establishing the call.
auto_record	all, external, internal, off	yes	string	Auto Record  all: All incoming calls to this extension will be recorded.  Off: This extension's calls will not be recorded.  External: All external calls of the extension will be recorded.  Internal: All internal calls of the extension will be recorded.
queue_timeout		yes	int	Max wait time Amount of time to keep a caller in queue before rerouting them to the timeout destination.
enable_feature	yes, no	no	string	Enable Feature Codes  If enabled, call queue members can use feature codes to transfer, call park or disconnect calls.

alertinfo	none, ring1,ring2, ring3, ring4,ring5, ring6, ring7,ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2, Bellcore-dr3, Bellcore-dr4, Bellcore-dr5, custom	ino Carta	string	Alert-info When the extension is callee, the Alert-info header field specifies an alternative ring tone to the callee.
voice_prompt_time	I TO THE POST OF T	no ent		Destination Prompt Cycle Configures the amount of time (in seconds) to pass before repeating the audio prompt specified in the <b>custom_promt</b> parameter below to callers. During the prompt, users can press 1 to transfer to the queue's configured Destination Prompt destination. Valid range is 20-200. Default is 20 seconds.
custom_prompt		no	string	Custom prompt When playing a custom prompt, press 1 to enter the failover destination or continue waiting in queue.
retry Republic Republ	A Triple	no	int	Retry time Configure the number of seconds to wait before ringing the next agent. The minimum is 1.
replace_caller_id	yes, no	no	string	Replace display name If enabled, the UCM will replace the caller CID name with Call Queue name.
queue_chairmans		no	string	Queue chairman
enable_agent_login	yes, no	no	string	Enable agent login Allows agent logins via 3rd party services.  Warning: Enabling this will log out all dynamic agents.
vq_switch	yes, no	no off	string	Enable Virtual Queue If enabled, virtual queue will be available for callers. Virtual queue allows callers to hang up the call while still maintaining their position in line. Callers will be called back when an agent is available to answer them.
vq_mode	yes, no	no	string	Virtual Queue Mode When in DTMF mode, press 2 to trigger virtual queue. When in timeout mode, virtual queue will be triggered when the configured Virtual Queue Period has passed.
vq_periodic	A TOOL OF THE PARTY OF THE PART	no	int	Virtual Queue Period When vq_mode is set to timeout mode and when callers have waited the configured amount time, they will automatically be entered into virtual queue.
vq_outprefix		no	string	Virtual Queue Outbound Prefix
		*		

ment

				System will add this prefix to dialed numbers when calling back users.
announce_position	yes, no	no	string	Enable Position Announcement If enabled, the UCM will announce to callers their position in queue.
announce_frequency		no	int	Announcement Interval The time interval (in seconds) in which positions and estimated wait times will be announced to callers.
destination_type_t	playsound, account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Timeout Destination The destination that the call will be routed to if not answered within the configured queue wait time.
vm_extension_t		no	string	Timeout Destination – Voicemail Use this as reference for the other "max wait time destination options" commands below.
account_t		no	string	Max wait time-Destination-extension
vmgroup_t		no	string	Max wait time-Destination-voicemail group
ivr_t		no	string	Max wait time-Destination-IVR
ringgroup_t		no	string	Max wait time-Destination-Ring Group
queue_dest_t		no	string	Max wait time-Destination-queues
external_number_t		no	string	Max wait time-Destination-external number
destination_type_v	account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Destination Prompt Cycle-destination The caller will be prompted to follow steps and get redirected to the configured failover destination.
vm_extension_v		no	string	Destination Prompt Cycle-destination-voicemail
account_v		no	string	Destination Prompt Cycle-destination-extension
vmgroup_v		no	string	Destination Prompt Cycle-destination-voicemail group
ivr_v		no	string	Destination Prompt Cycle-destination-IVR
ringgroup_v		no	string	Destination Prompt Cycle-destination-Ring group
queue_dest_v		no	string	Destination Prompt Cycle-destination-queues
external_number_v		no	string	Destination Prompt Cycle-destination-external number
destination_voice_enable	Yes, no	no	string	Configure whether callers will be prompted to be rerouted to the configured Destination Prompt Cycle destination.

autofill	Yes, no	no		Configures the queue's call handling behavior. See the UCM user manual for more details.  yes: Parallel call handling no: Serial call handling
destination_type_el	playsound, account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Failover Destination The destination that callers will be redirected to if the queue is empty or if all agents are unavailable.
vm_extension_el		no	string	Failover Destination-voicemail
account_el		no	string	Failover Destination-extension
vmgroup_el		no	string	Failover Destination-voicemail group
ivr_el		no	string	Failover Destination-IVR
ringgroup_el		no	string	Failover Destination-Ring group
queue_dest_el		no	string	Failover Destination-queues
external_number_el		no	string	Failover Destination-external number
vq_callback_enable_time out	yes, no	no	string	Whether or not a timeout will be set for callers waiting in virtual queue. Upon timeout, callers will be disconnected from virtual queue.
vq_callback_timeout		no	int	The virtual queue timeout period.
announce_holdtime	yes, no	no	string	Enable Wait Time Announcement If enabled, the estimated wait time for the call to get answered will periodically be announced to the caller. Note: Wait time will not be announced if less than one minute.
enable_welcome	yes, no	no	string	Enable welcome prompt
custom_welcome_prompt		no	string	Custom welcome prompt
schedule_clean_enable	once, daily, week, month	no	string	Whether or not to enable periodic agent call count clearing.
extension		no	string	Extension number
starttime		no	string	The time to reset agent call count.
pagingtype	once, daily, week, month	no	string	How often to reset agent call count.
week_date	sun, mon, tue, wed, thu, fri, sat	no	string	The weekday to reset agent call count.
custom_months	jan, feb, mar, apr, may, jun, jul, aug, sep, oct, nov, dec	no	string	The month to reset agent call count.

custom_dates		no	string	The day of the month to reset agent call count.
members		no	string	Static agents
status		Yes	int	Successful response, status is 0
Failed response				
status	0	yes	int	Please see the error code list for more details.

getQueue

# updateQueue

The "updateQueue" action allows users to update an existing call queue.

# Request

```
{
    "request":{
        "action":"updateQueue",
        "cookie":"sid225627296-1574851572",
        "members":"1001,1002,1003",
        "queue":"6502",
        "queue_name":"GStest"
    }
}
```

### • Response

```
{
    "response":{
        "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter	Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
queue		no	string	Specific queue number			
Successful response		'					
queue_name	0	yes	string	Queue name			
musicclass		yes	string	The Music on Hold playlist used by the queue.			
leavewhenempty		yes	string	Configures whether to disconnect callers in queue based on agent status. There are three options:			

				<ul> <li>Yes: Callers will be disconnected from queue if all agents are paused or unavailable.</li> <li>No: Callers will never be disconnected from queue.</li> <li>Strict (Default): Callers will be disconnected from the queue if there are no agents or if all agents are unavailable or paused.</li> </ul>
joinempty		yes	string	Configures whether callers can dial into a call queue with no agents. There are three options:  • Yes: Callers can always dial into a queue even if it is empty.  2. No (Default): Callers cannot dial into a queue if all agents are unavailable or paused.  • Strict: Callers cannot dial into a queue if there are no agents or if all agents are unavailable or paused.
pin		no	string	PIN for dynamic agent login. The suffix for dynamic agent login can be configured on the <b>Agent Login</b> page.
ringtime		yes	string	Ring time Configure the number of seconds to ring an agent. The minimum is 5.
strategy	ringall, linear, leastrecent, fewestcalls, random, memory	yes	string	Ring All: Ring all available agents simultaneously until one agent answers.  Linear: Ring agents in the specified order.  Least Recent: Ring the agent who has been called the least recently.  Fewest Calls: Ring the agent with the fewest completed calls.  Random: Ring a random agent.  Round Robin: Ring agents using round robin schedule with memory.
wrapuptime		yes	string	Wrap-up time Configure the delay time (in seconds) after a completed call before a new call will ring. If set to 0, there will be no delay between call completion and a new call.
maxlen		yes	string	Max Queue Length Configure the maximum number of calls to be queued at once. This number does not include calls that have been connected to agents, only calls that are still in queue. When this maximum value is exceeded, the caller will hear a busy tone and be forwarded to the configured failover destination. Default value is 0 (unlimited).
reportholdtime	yes, no	no	string	Report wait time If enabled, the wait time of the caller will be shown to the agent before establishing the call.
auto_record	all, external, internal, off	yes	string	Auto Record  all: All incoming calls to this extension will be recorded.

st <sup>o</sup> g thank		and a second		Off: This extension's calls will not be recorded.  External: All external calls of the extension will be recorded.  Internal: All internal calls of the extension will be recorded.
queue_timeout	(A)	yes	int	Max wait time Amount of time to keep a caller in queue before rerouting them to the timeout destination.
enable_feature	yes, no	no	string	Enable Feature Codes If enabled, call queue members can use feature codes to transfer, call park or disconnect calls.
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2, Bellcore-dr3, Bellcore-dr4, Bellcore-dr5,	no	string	Alert-info When the extension is callee, the Alert-info header field specifies an alternative ring tone to the callee
voice_prompt_time	custom	no		Destination Prompt Cycle Configures the amount of time (in seconds) to pass before repeating the audio prompt specified in the custom_promt parameter below to callers. During the prompt, users can press 1 to transfer to the queue's configured Destination Prompt destination. Valid range is 20-200. Default is 20 seconds.
custom_prompt		o no	string	Custom prompt When playing a custom prompt, press 1 to enter the failover destination or continue waiting in queue.
retry		no	int	Retry time Configure the number of seconds to wait before ringing the next agent. The minimum is 1.
replace_caller_id	yes, no	no non	string	Replace display name If enabled, the UCM will replace the caller CID name with Call Queue name.
queue_chairmans		no	string	Queue chairman
enable_agent_login	yes, no	no no	string	Enable agent login Allows agent logins via 3rd party services.  Warning: Enabling this will log out all dynamic agents.
vq_switch	yes, no	no	string	Enable Virtual Queue If enabled, virtual queue will be available for callers. Virtual queue allows callers to hang up the call while still maintaining their position in line. Callers will be called back when an agent is available to answer them.

e Menit

vq_mode	yes, no	no	string	Virtual Queue Mode When in DTMF mode, press 2 to trigger virtual queue. When in timeout mode, virtual queue will be triggered when the configured Virtual Queue Period has passed.
vq_periodic		no	int	Virtual Queue Period When vq_mode is set to timeout mode and when callers have waited the configured amount time, they will automatically be entered into virtual queue.
vq_outprefix		no	string	Virtual Queue Outbound Prefix System will add this prefix to dialed numbers when calling back users.
announce_position	yes, no	no	string	Enable Position Announcement If enabled, the UCM will announce to callers their position in queue.
announce_frequency		no	int	Announcement Interval The time interval (in seconds) in which positions and estimated wait times will be announced to callers.
destination_type_t	playsound, account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Timeout Destination The destination that the call will be routed to if not answered within the configured queue wait time.
vm_extension_t		no	string	Timeout Destination – Voicemail Use this as reference for the other "max wait time destination options" commands below.
account_t		no	string	Max wait time-Destination-extension
vmgroup_t		no	string	Max wait time-Destination-voicemail group
ivr_t		no	string	Max wait time-Destination-IVR
ringgroup_t		no	string	Max wait time-Destination-Ring Group
queue_dest_t		no	string	Max wait time-Destination-queues
external_number_t		no	string	Max wait time-Destination-external number
destination_type_v	account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Destination Prompt Cycle-destination The caller will be prompted to follow steps and get redirected to the configured failover destination.
vm_extension_v		no	string	Destination Prompt Cycle-destination-voicemail
account_v		no	string	Destination Prompt Cycle-destination-extension

vmgroup_v		no	string	Destination Prompt Cycle-destination-voicemail group
ivr_v		no	string	Destination Prompt Cycle-destination-IVR
ringgroup_v		no	string	Destination Prompt Cycle-destination-Ring group
queue_dest_v		no	string	Destination Prompt Cycle-destination-queues
external_number_v		no	string	Destination Prompt Cycle-destination-external number
destination_voice_enable	Yes, no	no	string	Configure whether callers will be prompted to be rerouted to the configured Destination Prompt Cycle destination.
autofill	Yes, no	no		Configures the queue's call handling behavior. See the UCM user manual for more details.  yes: Parallel call handling no: Serial call handling
destination_type_el	playsound, account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Failover Destination The destination that callers will be redirected to if the queue is empty or if all agents are unavailable.
vm_extension_el		no	string	Failover Destination-voicemail
account_el		no	string	Failover Destination-extension
vmgroup_el		no	string	Failover Destination-voicemail group
ivr_el		no	string	Failover Destination-IVR
ringgroup_el		no	string	Failover Destination-Ring group
queue_dest_el		no	string	Failover Destination-queues
external_number_el		no	string	Failover Destination-external number
vq_callback_enable_time out	yes, no	no	string	Whether or not a timeout will be set for callers waiting in virtual queue. Upon timeout, callers will be disconnected from virtual queue.
vq_callback_timeout		no	int	The virtual queue timeout period.
announce_holdtime	yes, no	no	string	Enable Wait Time Announcement If enabled, the estimated wait time for the call to get answered will periodically be announced to the caller. Note: Wait time will not be announced if less than one minute.
enable_welcome	yes, no	no	string	Enable welcome prompt

custom_welcome_prompt		no	string	Custom welcome prompt		
schedule_clean_enable	once, daily, week, month	no	string	Whether or not to enable periodic agent call count clearing.		
extension		no	string	Extension number		
starttime		no	string	The time to reset agent call count.		
pagingtype	once, daily, week, month	no	string	How often to reset agent call count.		
week_date	sun, mon, tue, wed, thu, fri, sat	no	string	The weekday to reset agent call count.		
custom_months	jan, feb, mar, apr, may, jun, jul, aug, sep, oct, nov, dec	no	string	The month to reset agent call count.		
custom_dates		no	string	The day of the month to reset agent call count.		
members		no	string	Static agents		
Successful response						
status	0	Yes	int	Successful response, status is 0		
need_apply	yes, no	Yes	string	Whether "Apply" is required for the configuration to take effect		
Failed response	Failed response					
status		yes	int	Please see the error code list for more details.		

updateQueue

# addQueue

The "addQueue" action will allow users to add a call queue.

### Request

```
{
    "request":{
        "action":"addQueue",
        "cookie":"sid225627296-1574851572",
        "extension":"6502",
        "members":"1001,1002",
        "queue_chairmans":"1001",
        "queue_name":"test",
        "strategy":"ringall"
    }
}
```

```
"response":{
     "need_apply":"yes"
},
"status":0
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
queue_name	0	yes	string	Queue name			
musicclass		yes	string	The Music on Hold playlist used by the queue.			
leavewhenempty		yes	string	Configures whether to disconnect callers in queue based on agent status. There are three options:  • Yes: Callers will be disconnected from queue if all agents are paused or unavailable.  • No: Callers will never be disconnected from queue.  • Strict (Default): Callers will be disconnected from the queue if there are no agents or if all agents are unavailable or paused.			
joinempty		yes	string	Configures whether callers can dial into a call queue with no agents. There are three options:  • Yes: Callers can always dial into a queue even if it is empty.  2. No (Default): Callers cannot dial into a queue if all agents are unavailable or paused.  • Strict: Callers cannot dial into a queue if there are no agents or if all agents are unavailable or paused.			
pin		no	string	PIN for dynamic agent login.  The suffix for dynamic agent login can be configured on the <b>Agent Login</b> page.			
ringtime		yes	string	Ring time Configure the number of seconds to ring an agent. The minimum is 5.			
strategy	ringall, linear, leastrecent, fewestcalls, random, memory	yes	string	Ring All: Ring all available agents simultaneously until one agent answers.     Linear: Ring agents in the specified order.     Least Recent: Ring the agent who has been called the least recently.     Fewest Calls: Ring the agent with the fewest completed calls.     Random: Ring a random agent.			

				<ul> <li>Round Robin: Ring agents using round robin schedule with memory.</li> </ul>
wrapuptime		yes	string	Wrap-up time Configure the delay time (in seconds) after a completed call before a new call will ring. If set 0, there will be no delay between call completio and a new call.
maxlen		yes	string	Max Queue Length Configure the maximum number of calls to be queued at once. This number does not include calls that have been connected to agents, only calls that are still in queue. When this maximum value is exceeded, the caller will hear a busy tor and be forwarded to the configured failover destination. Default value is 0 (unlimited).
reportholdtime	yes, no	no	string	Report wait time If enabled, the wait time of the caller will be shown to the agent before establishing the call.
auto_record	all, external, internal, off	yes	string	Auto Record  all: All incoming calls to this extension will be recorded.  Off: This extension's calls will not be recorded.  External: All external calls of the extension will recorded.  Internal: All internal calls of the extension will b recorded.
queue_timeout		yes	int	Max wait time Amount of time to keep a caller in queue before rerouting them to the timeout destination.
enable_feature	yes, no	no	string	Enable Feature Codes If enabled, call queue members can use feature codes to transfer, call park or disconnect calls.
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2, Bellcore-dr3, Bellcore-dr4, Bellcore-dr5, custom	no	string	Alert-info When the extension is callee, the Alert-info head field specifies an alternative ring tone to the callee.
voice_prompt_time		no		Destination Prompt Cycle Configures the amount of time (in seconds) to pass before repeating the audio prompt specific in the <b>custom_promt</b> parameter below to callers During the prompt, users can press 1 to transfer to the queue's configured Destination Prompt destination. Valid range is 20-200. Default is 20 seconds.
custom_prompt		no	string	Custom prompt When playing a custom prompt, press 1 to enterthe failover destination or continue waiting in

				queue.
retry		no	int	Retry time Configure the number of seconds to wait before ringing the next agent. The minimum is 1.
replace_caller_id	yes, no	no	string	Replace display name If enabled, the UCM will replace the caller CID name with Call Queue name.
queue_chairmans		no	string	Queue chairman
enable_agent_login	yes, no	no	string	Enable agent login Allows agent logins via 3rd party services.  Warning: Enabling this will log out all dynamic agents.
vq_switch	yes, no	no	string	Enable Virtual Queue If enabled, virtual queue will be available for callers. Virtual queue allows callers to hang up the call while still maintaining their position in line. Callers will be called back when an agent is available to answer them.
vq_mode	yes, no	no	string	Virtual Queue Mode When in DTMF mode, press 2 to trigger virtual queue. When in timeout mode, virtual queue will be triggered when the configured Virtual Queue Period has passed.
vq_periodic		no	int	Virtual Queue Period When vq_mode is set to timeout mode and when callers have waited the configured amount time, they will automatically be entered into virtual queue.
vq_outprefix		no	string	Virtual Queue Outbound Prefix System will add this prefix to dialed numbers when calling back users.
announce_position	yes, no	no	string	Enable Position Announcement If enabled, the UCM will announce to callers their position in queue.
announce_frequency		no	int	Announcement Interval The time interval (in seconds) in which positions and estimated wait times will be announced to callers.
destination_type_t	playsound, account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Timeout Destination The destination that the call will be routed to if not answered within the configured queue wait time.
vm_extension_t		no	string	Timeout Destination – Voicemail Use this as reference for the other "max wait time destination options" commands below.

account_t		no	string	Max wait time-Destination-extension
vmgroup_t		no	string	Max wait time-Destination-voicemail group
ivr_t		no	string	Max wait time-Destination-IVR
ringgroup_t		no	string	Max wait time-Destination-Ring Group
queue_dest_t		no	string	Max wait time-Destination-queues
external_number_t		no	string	Max wait time-Destination-external number
destination_type_v	account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Destination Prompt Cycle-destination The caller will be prompted to follow steps and get redirected to the configured failover destination.
vm_extension_v		no	string	Destination Prompt Cycle-destination-voicemail
account_v		no	string	Destination Prompt Cycle-destination-extension
vmgroup_v		no	string	Destination Prompt Cycle-destination-voicemail group
ivr_v		no	string	Destination Prompt Cycle-destination-IVR
ringgroup_v		no	string	Destination Prompt Cycle-destination-Ring group
queue_dest_v		no	string	Destination Prompt Cycle-destination-queues
external_number_v		no	string	Destination Prompt Cycle-destination-external number
destination_voice_enabl e	Yes, no	no	string	Configure whether callers will be prompted to be rerouted to the configured Destination Prompt Cycle destination.
autofill	Yes, no	no		Configures the queue's call handling behavior. See the UCM user manual for more details.  yes: Parallel call handling  no: Serial call handling
destination_type_el	playsound, account, voicemail, queue, ringgroup, vmgroup, ivr, external_number	no	string	Failover Destination The destination that callers will be redirected to if the queue is empty or if all agents are unavailable.
vm_extension_el		no	string	Failover Destination-voicemail
account_el		no	string	Failover Destination-extension
vmgroup_el		no	string	Failover Destination-voicemail group

ivr_el		no	string	Failover Destination-IVR
ringgroup_el		no	string	Failover Destination-Ring group
queue_dest_el		no	string	Failover Destination-queues
external_number_el		no	string	Failover Destination-external number
vq_callback_enable_time out	yes, no	no	string	Whether or not a timeout will be set for callers waiting in virtual queue. Upon timeout, callers will be disconnected from virtual queue.
vq_callback_timeout		no	int	The virtual queue timeout period.
announce_holdtime	yes, no	no	string	Enable Wait Time Announcement If enabled, the estimated wait time for the call to get answered will periodically be announced to the caller. Note: Wait time will not be announced if less than one minute.
enable_welcome	yes, no	no	string	Enable welcome prompt
custom_welcome_promp t		no	string	Custom welcome prompt
schedule_clean_enable	once, daily, week, month	no	string	Whether or not to enable periodic agent call count clearing.
starttime		no	string	The time to reset agent call count.
pagingtype	once, daily, week, month	no	string	How often to reset agent call count.
week_date	sun, mon, tue, wed, thu, fri, sat	no	string	The weekday to reset agent call count.
custom_months	jan, feb, mar, apr, may, jun, jul, aug, sep, oct, nov, dec	no	string	The month to reset agent call count.
custom_dates		no	string	The day of the month to reset agent call count.
members		no	string	Static agents
Successful response				
status	0	Yes	int	Successful response, status is 0
need_apply	yes, no	Yes	string	Whether "Apply" is required for the configuration to take effect
Failed response				
status		yes	int	Please see the error code list for more details.
	1	addQu	20110	

## deleteQueue

The "deleteQueue" allows users to delete an existing queue.

## Request

```
{
    "request":{
        "action":"deleteQueue",
        "cookie":"sid1095249077-1574756325",
        "queue":"6502"
}
```

### o Response

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter	Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
queue		yes	int	Queue number			
Successful response	e						
status	0	yes	int	The response is successful, status is 0.			
need_apply	Yes, no	yes	string	Whether "Apply" is required for the configuration to take effect.			

deleteQueue

## loginLogoffQueueAgent

The "loginLogoffQueueAgent" action allows users to log in or logoff static agents.

## o Request

```
{
    "request":{
        "action":"loginLogoffQueueAgent",
        "cookie":"sid1632521748-1574853548",
        "extension":"6502",
        "interface":"1001",
        "operatetype":"logoff"
    }
}
```

### Response

```
{
    "response":{},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
operatetype	login, logoff	yes	string	Operation type		
interface		yes	string	Agent number		
extension		yes	string	Queue number		
Successful response						
status	0	yes	int	The response is successful, status is 0.		

loginLogoffQueueAgent

## pause Unpause Queue Agent

The "pauseUnpauseQueueAgent" action allows users to pause or unpause static agents.

### o Request

```
{
    "request":{
        "action":"pauseUnpauseQueueAgent",
        "cookie":"sid1632521748-1574853548",
        "interface":"1002",
        "operatetype":"pause"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
operatetype	pause, unpause	yes	string	Operation type		
interface		yes	string	Agent number		
extension		no	string	Queue number		
Successful response	e					
status	0	yes	int	The response is successful, status is 0.		
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect		

pauseUnpauseQueueAgent

# Queueapi

The "Queueapi" action allows users to get the Queue Statistics.

### o Request

```
<?xml version="1.0"?>
<root_statistics>
 <total>
   <queuechairman>admin</queuechairman>
   <total_calls>2</total_calls>
   <abandoned_rate>50.0</abandoned_rate>
   <avg_wait>2</avg_wait>
   <avg_talk>7</avg_talk>
    <vq_total_calls>0</vq_total_calls>
 </total>
 <queue>
   <queuechairman>admin</queuechairman>
   <queue>6500</queue>
   <total_calls>2</total_calls>
   <answered_calls>1</answered_calls>
   <answered_rate>50.0</answered_rate>
   <avg_wait>2</avg_wait>
   <avg_talk>7</avg_talk>
    <vq_total_calls>0</vq_total_calls>
 </queue>
 <agent>
   <queuechairman>admin</queuechairman>
   <agent>1004</agent>
   <total_calls>2</total_calls>
   <answered calls>1</answered calls>
   <answered_rate>50.0</answered_rate>
   <avg_talk>7</avg_talk>
 </agent>
</root statistics>
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
format	csv, xml, json	no	string	Define output format of matching call queue statistics. Default is xml.
queuechairman	Admin, number	no	string	Queue chairman Default is admin
queue	Number,*	no	string	Queue number if queue number is *(default), all call queue information will be listed.
agent	Number,*	no	string	Agent number  If agent number is *(default), all agent information will be listed.
statisticsType	overview, calldetail, loginhistory, pausedhistory,	no	string	overview: overview(default) calldetail: agent detail loginhistory: login record pausedhistory: pause log
numRecords	[0,1000]	no	int	Number of returned records  Default is 1000, which is also the maximum allowed.
offset	number	no	int	The number of records that need to be skipped, use together with numRecords.  Accept all records when multiple responses show up. Default is 0.

startTime	Date and/or time, format is YYYY-MM-DD	yes	int	Time range of call queue statistics, format is YYYY-MM-DD			
Successful respo	Successful response						
Consistent with for	Consistent with former cdrapi interface. Return corresponding content based on format.						
Failed response							
status		yes	int	Please see the error code list for more details.			

Queueapi

## Paging/Intercom

# addPaginggroup

The "addPaginggroup" will allow users to add a paging group.

## Request

```
{
    "request":{
        "action":"addPaginggroup",
        "cookie":"sid1095249077-1574756325",
        "extension":"8004",
        "members":"1000,1001,1002",
        "number_allowed":"1000",
        "paginggroup_name":"8004",
        "paginggroup_type":"1way"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
extension		yes	string	extension		
paginggroup_name		yes	string	Paging group name		

paginggroup_type	3way, 2way, 1way, announcement	yes	string	Type:  • 1way: 1-way paging  • 2way: 2-way intercom  • 3way: Multicast paging  • announcement: announcement paging			
custom_prompt		no	string	Custom Prompt			
replace_caller_id	yes, no	no	string	Replace Display Name If enabled, the UCM will replace the caller display name with Paging/Intercom name.			
multicast_ip		no	string	Multicast IP Address The allowed multicast IP address range is 224.0.1.0 - 238.255.255.255.			
multicast_port		no	int	port			
limitime		no	int	Maximum Call Duration In seconds. Default is 0 means no limit.			
custom_date		no	string	date			
time		no	string	time, HH:MM			
enable	yes, no	no	string	Enable. Whether to enable announcement paging.			
members		no	string	Members that need paging/intercom			
paginggroup		yes	string	Paging group number			
old_multicast_ip		no	string	Multicast ip address set before The allowed multicast IP address range is 224.0.1.0 - 238.255.255.255.			
old_multicast_port		no	string	Multicast port set before			
number_allowed		no	string	Paging/Intercom Whitelist Only selected extensions will be able to initiate paging/intercom calls. If no extension is selected, all extensions will be able to initiate paging/intercom calls.			
Successful response	Successful response						
status		yes	int	The response is successful, status is 0.			
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect			
Failed response							
status		yes	int	Please see the error code list for more details.			
addPaginggroup							

## listPaginggroup

The "listPaginggroup" allows users to list the existing paging group.

### Request

```
{
    "request":{
        "action":"listPaginggroup",
        "cookie":"sid1095249077-1574756325",
        "page":"1",
        "sidx":"extension",
        "sord":"asc"
    }
}
```

```
"response":{
    "page":1,
    "paginggroup":[
            "custom_date":"2018-08-01",
           "custom_prompt":null,
           "enable":"yes",
           "extension": "8004",
           "holiday":null,
           "limitime":0,
           "members":"1000,1001,1002",
           "multicast_ip":"null",
           "multicast_port":"null",
           "paginggroup_name":"8004",
           "paginggroup_type":"1way",
           "replace_caller_id":"no",
           "time":"00:00",
           "tmp":"8004"
    "total_item":1,
    "total_page":1
},
"status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
page		no		Get extension list by page number.
sord	acs,desc	no		Sorting method. acs stands for ascending, and desc stands for descending.
sidx		no		Sort according to the index.

item_num		no		Extension number on each page, which is, the maximum items of each return.  If empty, all members are returned by default.
options	paginggroup_name, paginggroup_type, extension, custom_prompt, replace_caller_id, multicast_ip, multicast_port, limitime, custom_date, time, enable, members	no		Specify obtaining options. Multiple can be set, separated by commas. If empty, all options are returned by default.
Successful response				
status	0	yes	int	Total number of items on the list
total_item		yes	int	Total pages of the list
total_page		yes	int	What page is on.
page		yes	int	Extension number.
extension		no	string	extension
paginggroup_name		no	string	Paging group name
paginggroup_type	3way, 2way, 1way, announcement	no	string	Type:  • 1way: 1-way paging • 2way: 2-way intercom • 3way: Multicast paging • announcement: announcement paging
custom_prompt		no	string	Custom Prompt
replace_caller_id	yes, no	no	string	Replace Display Name If enabled, the UCM will replace the caller display name with Paging/Intercom name.
multicast_ip		no	string	Multicast IP Address The allowed multicast IP address range is 224.0.1.0 - 238.255.255.255.
multicast_port		no	int	port
limitime		no	int	Maximum Call Duration In seconds. Default is 0 means no limit.
custom_date		no	string	date
time		no	string	Time in HH:MM format
enable	yes, no	no	string	Enable. Whether to enable announcement
	I	I	I	

				paging.		
members		no	string	The members that will be paged.		
Failed response	Failed response					
status		yes	int	Please see the error code list for more details.		

listPaginggroup

# getPaginggroup

The "getPaginggroup" action allows users to get a specific paging group.

### Request

```
{
    "request":{
        "action":"getPaginggroup",
        "cookie":"sid1095249077-1574756325",
        "paginggroup":"8004"
    }
}
```

```
"response":{
    "paginggroup":{
       "custom_date":"2018-08-01",
        "custom_prompt":null,
        "enable":"yes",
       "extension":"8004",
        "holiday":null,
        "limitime":0,
       "members":"1000,1001,1002",
       "multicast_ip":"null",
        "multicast_port":"null",
        "number allowed": "1000",
        "paginggroup_name":"8004",
        "paginggroup_type":"1way",
        "replace_caller_id":"no",
        "time":"00:00",
       "tmp":"8004"
"status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
paginggroup		yes	string	Paging/intercom group number

Successful response						
status		yes	int	the response is successful, status is 0		
extension		no	string	extension		
paginggroup_name		no	string	Paging group name		
paginggroup_type	3way, 2way, 1way, announcement	no	string	Type:  • 1way: 1-way paging  • 2way: 2-way intercom  • 3way: Multicast paging  • announcement: announcement paging		
custom_prompt		no	string	Custom Prompt		
replace_caller_id	yes, no	no	string	Replace Display Name If enabled, the UCM will replace the caller display name with Paging/Intercom name.		
multicast_ip		no	string	Multicast IP Address The allowed multicast IP address range is 224.0.1.0 - 238.255.255.255.		
multicast_port		no	int	port		
limitime		no	int	Maximum Call Duration In seconds. Default is 0 means no limit.		
custom_date		no	string	date		
time		no	string	Time in HH:MM format		
Failed response						
status		yes	int	Please see the error code list for more details.		

getPaginggroup

## update Paging group

The "updatePaginggroup" action allows users to update an existing paging group.

## o Request

```
{
    "request":{
        "action":"updatePaginggroup",
        "cookie":"sid1381890074-1574854661",
        "members":"1003",
        "paginggroup":"8005",
        "paginggroup_type":"2way"
    }
}
```

```
"response":{
     "need_apply":"yes"
},
     "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
extension		yes	string	extension
paginggroup_name		yes	string	Paging group name
paginggroup_type	3way, 2way, 1way, announcement	yes	string	Type:  • 1way: 1-way paging • 2way: 2-way intercom • 3way: Multicast paging • announcement: announcement paging
custom_prompt		no	string	Custom Prompt
replace_caller_id	yes, no	no	string	Replace Display Name If enabled, the UCM will replace the caller display name with Paging/Intercom name.
multicast_ip		no	string	Multicast IP Address The allowed multicast IP address range is 224.0.1.0 - 238.255.255.255.
multicast_port		no	int	port
limitime		no	int	Maximum Call Duration In seconds. Default is 0 means no limit.
custom_date		no	string	date
time		no	string	time, HH:MM
enable	yes, no	no	string	Enable. Whether to enable announcement paging.
members		no	string	Members that need paging/intercom
paginggroup		yes	string	Paging group number
old_multicast_ip		no	string	Multicast ip address set before The allowed multicast IP address range is 224.0.1.0 - 238.255.255.255.

old_multicast_port		no	string	Multicast port set before	
number_allowed		no	string	Paging/Intercom Whitelist Only selected extensions will be able to initiate paging/intercom calls. If no extension is selected, all extensions will be able to initiate paging/intercom calls.	
Successful response					
status		yes	int	The response is successful, status is 0.	
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect	
Failed response					
status		yes	int	Please see the error code list for more details.	

updatePaginggroup

# deletePaginggroup

The "deletePaginggroup" action allows users to delete an existing paging group.

## Request

```
{
    "request":{
        "action":"deletePaginggroup",
        "cookie":"sid627603306-1574758858",
        "paginggroup":"8004"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
paginggroup		yes	string	Paging/intercom group number		

Successful response					
status		yes	int	the response is successful, status is 0	
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect	
Failed response					
status		yes	int	Please see the error code list for more details.	

delete Paging group

# MulticastPaging

The "MulticastPaging" action allows users to initiate a multicast paging call.

## o Request

```
{
    "request":{
        "action":"MulticastPaging",
        "caller":"1004",
        "cookie":"sid1381890074-1574854661",
        "pagingnum":"8005"
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note	
Request parameter					
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.	
pagingnum		yes	string	Multicast paging number	
caller		yes	string	The extension used to initiate the page.	
Successful response					

status		yes	int	the response is successful, status is 0
need_apply	no	yes	string	Whether "Apply" is required for the configuration to take effect
Failed response				
status		yes	int	Please see the error code list for more details.

MulticastPaging

# MulticastPagingHangup

The "MulticastPagingHangup" action allows users to hang up an ongoing multicast paging call.

## Request

```
{
    "request":{
        "action":"MulticastPagingHangup",
        "cookie":"sid1381890074-1574854661",
        "pagingnum":"8005"
    }
}
```

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter						
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
pagingnum		yes	string	Multicast paging number		
Successful response	e					
status		yes	int	the response is successful, status is 0		
need_apply	no	yes	string	Whether "Apply" is required for the configuration to		

				take effect	
Failed response					
status		yes	int	Please see the error code list for more details.	

MulticastPagingHangup

#### **IVR**

### addIVR

The "addIVR" action allows users to add an IVR.

#### Request

```
"request":{
        "action": "addIVR",
       "alertinfo":"ring1",
       "cookie":"sid1682729010-1574760528",
       "dial_conference": "no",
        "dial_directory":"no",
      "dial extension": "no",
        "dial fax": "no",
        "dial_paginggroup":"no",
       "dial_queue":"no",
        "dial_ringgroup":"no",
        "dial_trunk":"yes",
        "dial_vmgroup":"no",
        "digit_timeout":3,
        "extension":"7000",
        "iloop":3,
        "invalid prompt": "invalid",
        "ivr blackwhite list":"",
        "ivr name":"7000",
        "ivr_out_blackwhite_list":"1000",
        "language":null,
        "members":[
            {
                "keypress":"i",
                "keypress_event": "member_prompt",
                "member_prompt": "goodbye"
            },
                "keypress":"t",
                "keypress_event":"member_prompt",
                "member prompt": "goodbye"
        "permission": "internal-local",
        "replace_caller_id":"yes",
        "response_timeout":10,
        "switch": "no",
        "timeout_prompt":"ivr-create-timeout",
       "tloop":3,
        "welcome_prompt":"welcome"
    }
}
```

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Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
ivr_name		yes	string	IVR Name
extension		yes	string	IVR number, the extension number of automatic voice reply.
welcome_prompt		yes	string	Prompt Initial tone that plays when the user enters the IVR.
response_timeout		yes	int	Response Timeout  Timeout occurs when no DTMF entry is detected for the configured number of seconds after the IVR finishes playing the prompts.
digit_timeout		yes	int	Digit timeout  After the user enters a digit, the user needs to enter the next digit within the timeout. If no digit is detected within the timeout, the PBX will consider the entries complete. The default timeout is 3 seconds.
timeout_prompt		yes of the second	string	Response Timeout Prompt  Play the selected prompt if response timeout occurs.
invalid_prompt		yes	string	Maximum calling period.  In seconds, default is 0, which means unlimited.
tloop		yes the state of t	int	Response Timeout Prompt Repeats  Number of times to repeat the prompt.  After the final repeat, calls will be redirected to the  Timeout destination (if configured) or dropped.
iloop		yes	int	Invalid Input Prompt Repeats  Number of times to repeat the prompt.  After the final repeat, calls will be redirected to the Invalid destination (if configured) or dropped.

, en

dial_extension	yes, no	no	string	Dial Another Extensions-extension
dial_conference	yes, no	no	string	Dial Another Extensions-conference rooms
dial_queue	yes, no	no	string	Dial Another Extensions-queues
dial_ringgroup	yes, no	no	string	Dial Another Extensions-ring group
dial_vmgroup	yes, no	no	string	Dial Another Extensions-voicemail group
dial_paginggroup	yes, no	no	string	Dial Another Extensions-paging/intercom group
dial_fax	yes, no	no	string	Dial Another Extensions-fax
dial_trunk	yes, no	no	string	Dial trunk  If enabled, users will be able to access trunks through this IVR. if using this feature, it is mandatory to configure permission.
dial_directory	yes, no	no	string	Dial Another Extensions-dial by name
permission	internal, internal-local, internal-local- national, internal-local- national- international	no	string	permission internal-internal internal-local-local internal-local-national-national internal-local-national-international
language		no	string	language
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2 Bellcore-dr3, Bellcore-dr4, Bellcore-dr5, custom	no	string	Alert-info When present in an INVITE request, the Alert-info header field specifies an alternative ring tone to the UAS.
replace_caller_id		no	string	Replace Display Name
switch	no white black	no	string	IVR Black/Whitelist  Only whitelisted numbers and numbers not blacklisted can be called from the IVR.
ivr_blackwhite_list		no	string	Internal Black/Whitelist
ivr_out_blackwhite_list		no	string	External Blacklist/Whitelist  Can be used only when Dial Trunk is enabled.  Numbers will be added as follows: number1, number2, number3.

members		no	Json array	Key Pressing Events		
Successful response						
status		yes	int	the response is successful, status is 0		
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect		
Failed response						
status		yes	int	Please see the error code list for more details.		

addIVR

# **listIVR**

The "listIVR" action allows users to list the available IVR.

## o Request

```
{
    "request":{
        "action":"listIVR",
        "cookie":"sid1682729010-1574760528"
    }
}
```

```
"response":{
    "ivr":[
        {
            "alertinfo": "ring1",
            "dial_conference": "no",
            "dial_directory":"no",
            "dial_extension":"no",
            "dial_failed_back2menu": "no",
            "dial_fax":"no",
            "dial_multimedia_conference": "no",
            "dial_paginggroup":"no",
            "dial_queue": "no",
            "dial_ringgroup":"no",
            "dial_trunk":"yes",
            "dial_vmgroup":"no",
            "digit_timeout":3,
            "extension":"7000",
            "iloop":3,
            "invalid prompt": "invalid",
            "ivr_id":"ivr-1",
            "ivr_name":"7000",
            "language":null,
            "permission": "internal-local",
            "replace_caller_id":"yes",
            "response_timeout":10,
            "switch": "no",
            "timeout_prompt":"ivr-create-timeout",
            "tloop":3,
            "welcome_prompt":"welcome"
       }
    "page":1,
    "total item":1,
    "total_page":1
},
"status":0
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
page		no	int	Get extension list by page number.			
sord	acs,desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.			
sidx		no	string	Sort according to the index.			
item_num		no	int	Extension number on each page, which is, the maximum items of each return.  If empty, all members are returned by default.			
options	ivr_id, ivr_name, extension, response_tim	no	string	Specify obtaining options. Multiple can be set, separated by commas. If empty, all options are returned by default.			

	eout, digit_timeout			
Successful response				
status	0	yes	int	Successful response, status is 0
total_item		yes	int	Total pages of the list
total_page		yes	int	Total pages of the list
page		yes	int	What page is on.
ivr_id		no	string	IVR id
ivr_name		yes	string	IVR name
extension		yes	string	IVR number, the extension number of automa voice reply.
custom_prompt		yes	string	Prompt  The welcome prompt that plays when a calle dials into the IVR.
response_timeout		yes	int	Response Timeout The timeout that occurs when no DTMF inpudetected for the configured number of secon after an IVR prompt finishes playing.
digit_timeout		yes	int	Digit timeout The amount of time to enter each subsequer key after the first key entry. If no input is dete within the timeout period, the UCM will consi the entry complete. Default is 3 seconds.
timeout_prompt		yes	string	Response Timeout Prompt Play the selected prompt if response timeour occurs.
invalid_prompt		yes	string	Description doesn't match the parameter. Invalid Prompt Prompt that plays when invalid input is detected.
tloop		yes	int	Response Timeout Prompt Repeats  Amount of times to repeat the response time prompt before redirecting the call to the time destination (if configured) or disconnecting to call.
iloop		yes	int	Invalid Input Prompt Repeats  Number of times to repeat the invalid prompt before redirecting the call to the invalid destination (if configured) or disconnecting to call.
dial_extension	yes, no	no	string	Whether or not the IVR can dial regular extensions.

			1		
dial_conference	yes, no	no	string	Use previous comment as reference for the rest of the "dial_" parameters.	
dial_queue	yes, no	no	string	Dial Other Extensions-queues	
dial_ringgroup	yes, no	no	string	Dial Other Extensions-ring group	
dial_vmgroup	yes, no	no	string	Dial Other Extensions-voicemail group	
dial_paginggroup	yes, no	no	string	Dial Other Extensions-paging/intercom group	
dial_fax	yes, no	no	string	Dial Other Extensions-fax	
				Dial trunk	
dial_trunk	yes, no	no	string	Whether or not the IVR can dial to trunks. If enabled, the IVR must have permission level configured.	
dial_directory	yes, no	no	string	Dial Other Extensions-dial by name	
permission	internal, internal-local, internal-local- national, internal-local- national- international	no	string	permission internal-internal internal-local-local internal-local-national-national internal-local-national-international-international	
language		no	string	language	
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2 Bellcore-dr3, Bellcore-dr4, Bellcore-dr5, custom	no	string	Alert-info When present in an INVITE request, the Alert-info header field specifies an alternative ring tone to the UAS.	
replace_caller_id		no	string	Replace Display Name	
switch	no white black	no	string	IVR Black/Whitelist white: Only numbers in the whitelist can access this IVR. black: Numbers in the blacklist cannot access the IVR.	
Failed response					
status		yes	int	Please see the error code list for more details.	
listIVR					

### o Request

```
{
    "request":{
        "action":"getIVR",
        "cookie":"sid1682729010-1574760528",
        "ivr":"ivr-1"
    }
}
```

```
"response":{
    "ivr":{
       "alertinfo":"ring1",
       "dial_conference": "no",
       "dial_directory": "no",
       "dial_extension":"no",
       "dial_failed_back2menu":"no",
        "dial_fax":"no",
        "dial_multimedia_conference":"no",
        "dial_paginggroup": "no",
        "dial_queue":"no",
       "dial_ringgroup":"no",
       "dial_trunk":"yes",
       "dial_vmgroup": "no",
       "digit_timeout":3,
       "extension":"7000",
       "iloop":3,
        "invalid_prompt":"invalid",
        "ivr blackwhite list":"",
        "ivr_id":"ivr-1",
        "ivr_name":"7000",
        "ivr_out_blackwhite_list":"1000",
        "language":null,
        "permission": "internal-local",
        "replace_caller_id":"yes",
       "response_timeout":10,
        "switch": "no",
        "timeout_prompt":"ivr-create-timeout",
        "tloop":3,
        "welcome_prompt":"welcome"
    },
    "members":[
        {
            "keypress":"i",
            "keypress_event":"member_prompt",
            "member_prompt": "goodbye"
            "keypress":"t",
            "keypress_event": "member_prompt",
            "member prompt": "goodbye"
"status":0
```

Key Word	Value	Mandatory	Туре	Note	
Request parameter					

cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
ivr		yes	string	IVR number				
Successful response	Successful response							
status	0	yes	int	Successful response, status is 0				
ivr_id		no	string	IVR id				
ivr_name		yes	string	IVR name				
extension		yes	string	IVR number, the extension number of automatic voice reply.				
welcome_prompt		yes	string	Prompt  The welcome prompt that plays when a caller dials into the IVR.				
response_timeout		yes	int	Response Timeout The timeout that occurs when no DTMF input is detected for the configured number of seconds after an IVR prompt finishes playing.				
digit_timeout		yes	int	Digit timeout The amount of time to enter each subsequent key after the first key entry. If no input is detected within the timeout period, the UCM will consider the entry complete. Default is 3 seconds.				
timeout_prompt		yes	string	Response Timeout Prompt Play the selected prompt if response timeout occurs.				
invalid_prompt		yes	string	Description doesn't match the parameter. Invalid Prompt Prompt that plays when invalid input is detected.				
tloop		yes	int	Response Timeout Prompt Repeats Amount of times to repeat the response timeout prompt before redirecting the call to the timeout destination (if configured) or disconnecting the call.				
iloop		yes	int	Invalid Input Prompt Repeats  Number of times to repeat the invalid prompt before redirecting the call to the invalid destination (if configured) or disconnecting the call.				
dial_extension	yes, no	no	string	Whether or not the IVR can dial regular extensions.				
dial_conference	yes, no	no	string	Use previous comment as reference for the rest				

				of the "dial_" parameters.
dial_queue	yes, no	no	string	Dial Other Extensions-queues
dial_ringgroup	yes, no	no	string	Dial Other Extensions-ring group
dial_vmgroup	yes, no	no	string	Dial Other Extensions-voicemail group
dial_paginggroup	yes, no	no	string	Dial Other Extensions-paging/intercom group
dial_fax	yes, no	no	string	Dial Other Extensions-fax
dial_trunk	yes, no	no	string	Dial trunk  Whether or not the IVR can dial to trunks. If enabled, the IVR must have permission level configured.
dial_directory	yes, no	no	string	Dial Other Extensions-dial by name
permission	internal, internal-local, internal-local-national, internal-local-national- international	no	string	permission internal-internal internal-local-local internal-local-national-national internal-local-national-international
language		no	string	language
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore- dr1, Bellcore-dr2 Bellcore-dr3, Bellcore- dr4, Bellcore-dr5, custom	no	string	Alert-info When present in an INVITE request, the Alert-info header field specifies an alternative ring tone to the UAS.
replace_caller_id		no	string	Replace Display Name
switch	no white black	no	string	IVR Black/Whitelist white: Only numbers in the whitelist can access this IVR. black: Numbers in the blacklist cannot access the IVR.
ivr_blackwhite_list		no	string	Internal Black/Whitelist
ivr_out_blackwhite_list		no	string	External Blacklist/Whitelist Can be used only when Dial Trunk is enabled. Numbers will be added as follows: number1, number2, number3.
members		no	Json array	Key Pressing Events
Failed response				
status		yes	int	Please see the error code list for more details.

## updateIVR

The "updateIVR" action allows users to update a specific IVR.

#### Request

```
"request":{
       "action": "updateIVR",
       "alertinfo": "ring2",
        "cookie":"sid1682729010-1574760528",
       "dial_conference": "no",
       "dial_directory":"no",
       "dial_extension": "no",
        "dial_failed_back2menu": "no",
        "dial_fax":"no",
       "dial_paginggroup":"no",
        "dial_queue":"no",
        "dial_ringgroup":"no",
        "dial_trunk":"yes",
        "dial_vmgroup": "no",
        "digit_timeout":"3",
        "iloop":"3",
        "invalid_prompt": "invalid",
        "ivr":"ivr-1",
        "ivr_name":"7000",
        "ivr_out_blackwhite_list":"1009",
        "permission": "internal-local",
        "replace_caller_id":"yes",
        "response_timeout":"10",
        "switch": "no",
        "timeout_prompt":"ivr-create-timeout",
        "tloop":"3",
        "welcome_prompt":"welcome"
}
```

```
{
    "response":{
         "need_apply":"yes"
},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
ivr		yes	string	IVR number			
ivr_name		yes	string	IVR Name			

extension		yes	string	IVR number, the extension number of automatic voice reply.
welcome_prompt		yes	string	Prompt Initial tone that plays when the user enters the IVR.
response_timeout		yes	int	Response Timeout  Timeout occurs when no DTMF entry is detected for the configured number of seconds after the IVR finishes playing the prompts.
digit_timeout		yes	int	Digit timeout  After the user enters a digit, the user needs to enter the next digit within the timeout. If no digit is detected within the timeout, the PBX will consider the entries complete. The default timeout is 3 seconds.
timeout_prompt		yes	string	Response Timeout Prompt  Play the selected prompt if response timeout occurs.
invalid_prompt		yes	string	Maximum calling period.  In seconds, default is 0, which means unlimited.
tloop		yes	int	Response Timeout Prompt Repeats Number of times to repeat the prompt. After the final repeat, calls will be redirected to the Timeout destination (if configured) or dropped.
iloop		yes	int	Invalid Input Prompt Repeats  Number of times to repeat the prompt.  After the final repeat, calls will be redirected to the Invalid destination (if configured) or dropped.
dial_extension	yes, no	no	string	Dial Another Extensions-extension
dial_conference	yes, no	no	string	Dial Another Extensions-conference rooms
dial_queue	yes, no	no	string	Dial Another Extensions-queues
dial_ringgroup	yes, no	no	string	Dial Another Extensions-ring group
dial_vmgroup	yes, no	no	string	Dial Another Extensions-voicemail group
dial_paginggroup	yes, no	no	string	Dial Another Extensions-paging/intercom group
dial_fax	yes, no	no	string	Dial Another Extensions-fax

dial_trunk	yes, no	no	string	Dial trunk If enabled, users will be able to access trunks through this IVR. if using this feature, it is mandatory to configure permission.		
dial_directory	yes, no	no	string	Dial Another Extensions-dial by name		
permission	internal, internal-local, internal-local-national, internal-local-national- international	no	string	permission internal-internal internal-local-local internal-local-national-national internal-local-national-international- international		
language		no	string	language		
alertinfo	none, ring1, ring2, ring3, ring4, ring5, ring6, ring7, ring8, ring9, ring10, Bellcore-dr1, Bellcore-dr2 Bellcore-dr3, Bellcore-dr4, Bellcore-dr5, custom	no	string	Alert-info When present in an INVITE request, the Alert-info header field specifies an alternative ring tone to the UAS.		
replace_caller_id		no	string	Replace Display Name		
switch	no white black	no	string	IVR Black/Whitelist Only whitelisted numbers and numbers not blacklisted can be called from the IVR.		
ivr_blackwhite_list		no	string	Internal Black/Whitelist		
ivr_out_blackwhite_list		no	string	External Blacklist/Whitelist  Can be used only when Dial Trunk is enabled. Numbers will be added as follows: number1, number2, number3.		
members		no	Json array	Key Pressing Events		
Successful response						
status		yes	int	the response is successful, status is 0		
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect		
Failed response						
status		yes	int	Please see the error code list for more details.		

updateIVR

# deleteIVR

## o Request

```
{
    "request":{
        "action":"deleteIVR",
        "cookie":"sid1682729010-1574760528",
        "ivr":"ivr-1"
    }
}
```

## Response

```
{
    "response":{
         "need_apply":"yes"
    },
    "status":0
}
```

Key Word	Value	Mandatory	Туре	Note			
Request parameter							
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.			
ivr		yes	string	Talked to development team. This is the IVR index, not extension. Will be changed to IVR extension in the future.			
Successful response							
status		yes	int	The response is successful, status is 0			
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect			
Failed response							
status		yes	int	Please see the error code list for more details.			

deleteIVR

# **User Information**

The "listUser" action allows users to get information about a user.

## Request

```
{
    "request": {
        "action":"listUser",
        "item_num":"10",
        "sidx":"extension",
        "sord":"asc",
        "page":"1",
        "cookie": "sid81747798-1551856142"
    }
}
```

```
"response":{
    "user_id":[
       {
            "user_id":0,
            "user_name":"admin",
            "privilege":0,
            "department":null,
            "first_name":null,
            "last_name":null,
            "enable_multiple_extension":"no",
            "multiple_extension":null,
            "email":null,
            "language":null,
            "fax":null,
            "family_number":null,
            "phone_number":null,
            "cookie": "sid523099813-1555662509",
            "login time": "2019-04-19 16:49:05",
            "email_to_user":"no",
            "ip":"192.168.129.55"
        },
            "user id":2,
            "user_name":"1083",
            "privilege":3,
            "department":null,
            "first name": "aaa",
            "last name": "aaa",
            "enable multiple extension": "no",
            "multiple_extension":null,
            "email":null,
            "language":null,
            "fax":null,
            "family_number":null,
            "phone_number":null,
            "cookie":null,
            "login_time":null,
            "email to user": "no",
            "ip":null
        },
            "user_id":3,
            "user name":"1084",
            "privilege":3,
            "department":null,
            "first_name":null,
            "last_name":null,
            "enable_multiple_extension":"no",
            "multiple_extension":null,
            "email":null,
            "language":null,
            "fax":null,
            "family_number":null,
            "phone number":null,
            "cookie":null,
            "login_time":null,
            "email_to_user":"no",
            "ip":null
    "total_item":3,
    "total_page":1,
    "page":1
"status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter	v	e ent		a art
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
page		no	int	Get extension list by page number.
sord	acs,desc	no	string	Sorting method. acs stands for ascending, and desc stands for descending.
sidx		no lem	string	Sort according to the index.
item_num		no	int	Extension number on each page, which is, the maximum items of each return.  If empty, all members are returned by default.
options application of the state of the stat	department, first_name, last_name, email, language, fax, family_number, phone_number, login_time, ip	Though the state of the state o	string	Specify obtaining options. Multiple can be set, separated by commas. If empty, all options are returned by default.
Successful response				
status	0	yes	int	Successful response, status is 0
total_item		yes	int	Total number of items on the list
total_page		yes	int	Total pages of the list
page		yes	int	What page is on.
user_id		no	int	User id
user_name		yes	string	User name
privilege		yes	int	The privilege level granted to the user.
department		yes	string	The department that the user belongs to.
first_name		yes	string	First name of the user
ast_name	<u>.</u>	yes recht	string	Last name of the user
email & Victoria		yes	string	Email address of the user. For example, "bobjones@bobjones.null".
anguage		yes	string	Language The language that the user will hear voice

men'

				"default" uses the language of global settings.	
fax		yes	string	Fax number of the user.	
family_number		yes	string	User family number	
phone_number		yes	string	User phone number	
login_time		yes	string	Last login time	
ip		yes	string	IP address of the user.	
Failed response					
status		yes	int	Please see the error code list for more details.	

listUser

## getUser

The "getUser" action allows users to obtain the user's configuration.

#### o Request

#### o Response

```
{
    "response":{
       "user_name":{
           "login_time":null,
           "cookie":null,
           "phone_number":"18373710740",
           "family_number":"8888",
           "fax":"123",
           "language":"en",
            "email":"2453034231@gmail.com",
            "multiple_extension":null,
            "enable_multiple_extension":"no",
            "email_to_user":"yes",
            "last_name":"John",
            "first_name":"Doe",
            "department": "Documentation",
           "privilege":3,
           "user_id":2
    },
    "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter			an't	n <sup>i</sup> .
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
ser_name		yes	string	username
Successful respons	e	<u>'</u>		
status phone_number	0	yes	int	Successful response, status is 0  User phone number
amily_number		yes	string	User family phone number
ax		yes	string	User fax
anguage		yes yes	string	Language Language of voice prompt.  "default" uses the language of global settings.
email		yes	string	The Email address of this user. For example, "bobjones@bobjones.null".
ast_name		yes	string	The last Name of the user.
irst_name		yes	string	The first Name of the user.
lepartment		yes who have	string	The Department that the user belongs to
privilege		yes	int	The privilege level granted to the user.
user_id		yes	int	User id
ailed response			n'i	, čt
1,01° 1001		Hate	TO.	Please see the error code list for more details.

getUser

## updateUser

The "updateUser" action allows users to update a user.

Request

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```
"request":{
          "user_name":"1083",
          "department": "R&D department 2",
          "fax":"123",
          "email": "gangwang@grandstream.cn",
          "first_name":"aaa",
          "last_name":"aaa",
          "family_number":"8888",
          "phone_number":"18373710740",
          "privilege":"3",
          "action": "updateUser",
          "user_id":"2"
o Response
      "response":{
          "need_apply":"yes"
      },
      "status":0
                 Key Word
                                 Value
                                           Mandatory
```

Request parameter

cookie

user name

phone\_number

family\_number

email

last\_name

first\_name

department

Privilege

user\_id

Type

string

string

string

string

string

string

string

string

string

Int

int

User fax

User id

yes

yes

yes

yes

yes

yes

yes

yes

yes

Note Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned. username User phone number User family phone number The Email address of this user. For example, "bobjones@bobjones.null". The last Name of the user. The first Name of the user. The Department that the user belongs to The privilege level granted to the user.

Successful response

status		yes	int	The response is successful, status is 0		
need_apply	yes, no	yes	string	Whether "Apply" is required for the configuration to take effect		
Failed response						
status		yes	int	Please see the error code list for more details.		

updateUser

## **Extension Groups**

## list Extension Group

The "listExtensionGroup" action allows users to list extension groups.

## o Request

```
{
    "request": {
        "action":"listExtensionGroup",
        "item_num":"10",
        "sidx":"group_name",
        "sord":"asc",
        "page":"1",
        "cookie": "sid81747798-1551856142"
}
```

#### o Response

```
{
    "response":{
        "extension_group":[
               "group_id":"group-3",
               "group_name":"1083",
               "members":"1083",
               "tmp": "group-3"
            },
               "group_id":"group-2",
               "group_name":"45",
                "members":"1083,1084",
               "tmp":"group-2"
               "group_id":"group-1",
               "group_name":"ew",
               "members":null,
               "tmp":null
        "total_item":3,
       "total_page":1,
       "page":1
    "status":0
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
page		no	int	username
sord	acs,desc	no	string	User phone number
sidx		no	string	User family phone number
item_num		no	int	User fax
options	group_name, members, group_id	no	string	The Email address of this user. For example, "bobjones@bobjones.null".
Successful response	е			
status		yes	int	The response is successful, status is 0
total_item	yes, no	yes	int	Whether "Apply" is required for the configuration to take effect
total_page		yes	int	Total pages of the list
page		yes	int	What page is on.
group_id		no	int	Group id
group_name		yes	string	Group name
members		yes	int	Extensions in the group
Failed response				
status		yes	int	Please see the error code list for more details.

listExtensionGroup

## **PIN Groups**

## **listPinSets**

The "listPinSets" action allows users to list the available PIN groups.

Request

```
{
    "request": {
        "action":"listPinSets",
        "item_num":"10",
        "sidx":"pin_sets_id",
        "sord":"asc",
        "page":"1",
        "cookie": "sid81747798-1551856142"
}
```

#### o Response

```
"response":{
    "pin_sets_id":[
        {
            "pin_sets_id":"1557210434090",
            "pin_sets_name": "hehe",
            "record_in_cdr":"no"
        },
        {
            "pin_sets_id":"1557210889523",
"pin_sets_name":"kp",
            "record_in_cdr":"no"
   ],
    "total item":2,
    "total_page":1,
    "page":1
},
"status":0
```

Key Word	Value	Mandatory	Туре	Note				
Request parameter								
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.				
page		no	int	username				
sord	acs,desc	no	string	User phone number				
sidx		no	string	User family phone number				
item_num		no	int	User fax				
options	group_name, members, group_id	no	string	The Email address of this user. For example, "bobjones@bobjones.null".				
Successful response	Successful response							
status		yes	int	The response is successful, status is 0				

total_item	yes, no	yes	int	Whether "Apply" is required for the configuration to take effect			
total_page		yes	int	Total pages of the list			
page		yes	int	What page is on.			
pin_sets_id		no	int	ID of the PIN set			
pin_sets_name		yes	string	Name of the PIN set			
record_in_cdr		yes	string	Whether to record in CDR			
Failed response							
status		yes	int	Please see the error code list for more details.			

listPinSets

## cdrapi

The "cdrapi" action allows users to get the CDR database.

## Request

```
{
    "request":{
        "action":"cdrapi",
        "cookie":"sid1381890074-1574854661",
        "format":"json"
}
```

#### Response

```
"cdr_root":[
   {
        "AcctId":"1",
       "accountcode":"",
       "action_owner":"1004",
        "action_type":"PAGE[8005]",
        "amaflags": "DOCUMENTATION",
        "answer":"2019-11-27 07:17:13",
        "billsec":"1",
        "caller_name":"1004",
        "cdr":"1574857028274003-1004",
        "chanext":"",
        "channel": "PJSIP/1004-00000010",
        "channel_ext":"1004",
        "clid":"\"1004\" <1004>",
        "dcontext": "pagegroups",
        "disposition": "ANSWERED",
        "dst":"8005",
        "dst trunk name":"",
        "dstanswer":"8005",
        "dstchanext":"",
        "dstchannel": "MulticastRTP/0x47e2650c",
        "dstchannel ext": "0x47e2650c",
        "duration":"6",
        "end":"2019-11-27 07:17:14",
        "lastapp":"Dial",
        "lastdata": "MulticastRTP/basic/224.0.1.2:8080,10,zA()",
        "recordfiles":"",
        "service":"p",
        "session":"1574857028274003-1004",
        "src":"1004",
        "src trunk name":"",
        "start":"2019-11-27 07:17:08",
        "uniqueid": "1574857028.56",
        "userfield":"Internal"
]
```

Key Word	Value	Mandatory	Туре	Note
Request parameter				
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
format	csv, xml, json	no	int	username
numRecords	[0,1000]	no	string	User phone number
offset	number	no	string	User family phone number
caller	Extension separated by comma, extension range, caller regular expression		string	The filter can find call records that match the input parameter, based on source (caller) number or destination (callee) number.  A format including wildcard ('@' or '_') will be treated as regular expression. ,'-' is treated as range symbol rather than hyphen; '@' represents characters of any digit(including 0); '_' represents one character.  Otherwise, digits including a hyphen will be recognized as an extension segment, non-

callee				numeric characters or characters including multiple hyphens will be ignored 0-0 matches all non-numeric string and null string.  For example, caller=5300,5302-5304,_4@-or-caller=5300&caller=5302-5304&caller=_4@ (matches extension 5300. 5302, 5303, 5304 and any extension of which the second digit is 4.)				
startTime	Date and /or time, format is as follows: YYYY-MM-DDTHH:MM YYYY-MM-DDTHH:MM:SS YYYY-MM-DDTHH:MM:SS.SSS	yes	int	Filter is based on value of starting time. It matches calls start time in this period, despite the time of answering or hangup. If null, there is no limitation of minimum and maximum start time. If date is null, the default date is 2000-01-01; If time is null, the default time is 0:00 UTC. String including time could also specify a time zone, use '%2B' to replace the '+' in timezone. (See detail in http://www.w3.org/TR/NOTE-datetime)				
endTime	('T' is the separator of the 3 formats) HH:MM HH:MM:SS HH:MM:SS.SSS							
minDur	Number(in seconds)	no	int	Filter is based on call duration.				
maxDur	Humber(in seconds)	110	iiit	Title is based on call adiation.				
answeredby		no	string	callee				
timeFilterType	Start, End	no	string					
callerName		no	string					
delete		no	string	Delete CDR records				
Successful respons	Successful response							
Consistent with form	Consistent with former cdrapi interface. Return corresponding content based on format.							
Failed response								
status		yes	int	Please see the error code list for more details.				

cdrapi

For more details regarding parameters to use in the request please refer to:

https://documentation.grandstream.com/knowledge-base/cdr-rec-api/

## Recapi

## **Local Files**

The "recapi" action allows users to download the wanted audio file.

Request

```
"request":{
    "action":"recapi",
    "cookie":"sid1381890074-1574854661",
    "filedir":"monitor",
    "filename":"auto-1574857256-1003-1004.wav"
}
```

#### o Response

Once successful, it will prompt you to choose a location to save the downloaded file.

Key Word	Value	Mandatory	Туре	Note	Jorde Fale me.
Request parameter	(	A PO			
cookie		yes	string	Returned value after login. A include this value. If no cook code -6 will be returned.	
filedir	monitor, emergencymeetme, queue, sca	no no	string	Which type of record file to deseparated commas.  If filename and filedir are nusupported filedir list will be rule only filename is set, filedir default.	Il at the same time, the returned.
filename	i,	no no	string	If only filedir is set, all csv fil corresponding type will be re files are downloaded, they are commas.	eturned. When multiple
Successful response	(	A The Partie of		A Profile Pale	W. Kola Holes
Consistent with forme	er cdrapi interface. Re	turn corresponding	content base	ed on format.	<b>V</b>
Failed response					
Consistent with origin	al recapi interface. Er	ror description.		of the second	
nd le la		The Road of the Ro		ng dalam	nd Light of the

#### **GDMS and NAS Files**

To retrieve recording files that are stored on GDMS and NAS files use the following parameters and values:

OC.	Key Word	Value	Mandatory	Туре	Note Note
	Request Parameter	OK.	A POPPE	,	A TO THE REPORT OF THE PARTY OF
	Cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.
	Filedir	monitor, emergencyme	no	string	Which type of record file to obtain. Multiple can be separated commas.
33		30		30	A STATE OF THE STA

		etme, queue, sca			If filename and filedir are null at the same time, the supported filedir list will be returned.  If only filename is set, filedir is set to monitor as default.
	gdms_date	of the left of the	no	String	Enter the recording date. If the parameter is not included in the request, the value "thismonth" will be used.
	gdms_item_number		no	integer	Enter the max number of recordings to view/retrieve. If the parameter is not included in the request, the value 20 will be used.
Ž,	gdms_page	, K.	no	Integer	Enter the number of pages of recordings you want to view/retrieve. If the parameter is not included in the request, the value requested will be 1.
5'	path_type	gdms, netdisk	yes (The later of the later of	string	Enter the location of the recordings to view/retrieve information from. "gdms" indcates gdms cloud platform. "netdisk" indicates NAS.

#### Get Request

```
"request":{
    "action":"recapi",
    "cookie":"sid173710538-1681394925",
    "filedir":"monitor",
    "gdms_date":"2023-04",
    "gdms_item_number":"20",
    "gdms_page":"1",
    "path_type":"gdms"
}
```

#### Get Response

Directory Filename uniqueCode

Directory, Filename, uniqueCode
monitor, auto-1680780504-2015-2002.venc, 18831795fad74300a949bc353fa91f65
monitor, auto-1680780501-2015-2002.venc, 9c2d11eadb6c41089b16647c721ce50e
monitor, auto-1680779629-2015-2002.venc, 0b38ccfcad934ae6b11503c33915d5b1
monitor, auto-1680779623-2015-2002.venc, d0dbc060a4f84c81a976c5c90fb0e778

#### Download Request

```
"request":{
    "action":"recapi",
    "cookie":"sid2044000962-1681399117",
    "filedir":"monitor",
    "filename":"auto-1680779623-2015-2002.venc",
    "path_type":"gdms",
    "uniquecode":"d0dbc060a4f84c81a976c5c90fb0e778"
}
```

Downloading from NAS is similar and would only require changing the path\_type to "netdisk".

#### • Get Request

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```
{
    "request":{
        "action":"recapi",
        "cookie":"sid173710538-1681394925",
        "filedir":"monitor",
        "path_type":"netdisk"
    }
}
```

For more details regarding parameters to use in the request please refer to:

https://documentation.grandstream.com/knowledge-base/cdr-rec-api/

## **Pmsapi**

The "pmsapi" action allows users to configure PMS actions such as Checkin, checkout, etc.

#### Check-in

#### o Request

```
"request":{
   "action":"pmsapi",
   "cookie": "sid992645785-1575025577",
   "data":"<pms_data_request>
          <checkin>
          <address>1001</address>
          <room>1001</room>
    <account>1001</account>
          <firstname>John</firstname>
          <lastname>Doe
          <language>EN</language>
          <vipcode>2</vipcode>
          <datein>2021/01/01 10:00</datein>
          <dateout>2021/01/07 11:00</dateout>
          <credit>9999900</credit>
          <cos>3</cos>
          </checkin>
          </pms_data_request>",
   "format": "xml",
   "token":"16c4a7b1fe890f89c8908f3f522fc18f"
}
```

#### Response

```
{
    "response":{},
    "status":0
```

Key Word	Value	Mandatory	Туре	Note	
Request parameter					
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.	

token	1	10	string	String consists of PMS username and passwore encryption.	rd after md5
A TOPE TO BE A PARTY		A Thomas	enent	Type of data string String in xml or json format:xml <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	A Profesion
data	xml, json	/es	String	<room>100</room> <account>123456</account> <firstname>John</firstname> <lastname>Doe</lastname> <language>EN</language> <vipcode>2</vipcode> <datein>2010/01/01 10:00</datein> <dateout>2010/01/07 11:00</dateout> <credit>9999900</credit> <cos>3</cos> json	Tropie de la constitución de la
* Propedianan		A Model of the	ener".	{"checkin": {"address": "2345", "room": "2345", "account":"2345", "datein":"20180909","dateout":"20180910","lang "firstname": "grand", "lastname":"stream", "vipco"cos":"1", "credit":"100"}}	
address				identifier recognized by destination	
room				room number, source room	
account			en'i	account number	
firstname		The de la	ern	firstname of guest	The Diegistale
lastname				lastname of guest	( <b>4</b> )
language				language for account	
vipcode				vipcode	
datein			enent	datein format YYYY/MM/DD hh:mm	Under House
dateout		(A) PO		dateout format YYYY/MM/DD hh:mm	(A) PO
credit				credit	
cos				call permission 1 < 2 < 3 < 4	
d_address		,rc/c	anen't	Mov :destination address	, rate
r_room		A POPPE		Move :destination room	Not Off of
w_action	0,1			1 = set. 0 = cancel	*
w_mode	1,2			1 = single (default). 2 = daily.	

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w_date	YYYY MMDD			wakeup date format YYYYMMDD		
w_time	ННММ			wakeup time format HHMM		
Successful response	Successful response					
status	0	yes	int	Successful response, status is 0		
Failed response	Failed response					
status	0	yes	int	Status is -1		
error		yes	string	Error description		

Pmsapi

The following actions can also be done using pmsapi action:

## **Update**

```
"request": {
      "action": "pmsapi",
       "cookie": "sid612583207-1551962142",
       "token": "63E780C3F321D13109C71BF81805476E",
       "format": "xml",
       "data":"<pms_data_request>
     <update>
     <address>1000</address>
     <room>100</room>
     <account>123456</account>
     <firstname>John</firstname>
     <lastname>Doe
     <language>EN</language>
     <vipcode>2</vipcode>
     <datein>2010/01/01 10:00</datein>
     <dateout>2010/01/07 11:00</dateout>
     <credit>9999900</credit>
     <cos>3</cos>
     </update>
     </pms_data_request>"
```

#### Mov

## Wakeup

```
{
    "request": {
        "action": "pmsapi",
        "token": "63E780C3F321D13109C71BF81805476E",
        "format": "xml",
        "data": "<pms_data_request>
        <wakeup>
        <address>1000</address>
        <room>1000</room>
        <w_action>1</w_action>
        <w_mode>1</w_mode>
        <w_date>20140101</w_date>
        <w_time>0900</w_time>
        </wakeup>
        </pms_data_request>",
        "cookie": "sid612583207-1551962142"
}
```

#### Checkout

#### **Add Mini Bar**

#### **Delete Mini Bar**

## **Add Mini Bar goods**

#### **Delete Mini Bar goods**

## **List Mini Bar goods**

Retrieves the list of purchasable items that have been set.

#### **Request:**

```
{
    "request": {
        "action": "pmsapi",
        "cookie": "sid833196619-1706253582",
        "data": {
             "listMiniBarGoods": {}
        },
        "token": "16c4a7b1fe890f89c8908f3f522fc18f"
    }
}
```

uccessful Response:

```
"response":{
    "goods_name":[
       {
           "amount":"100",
           "extension":"01",
           "goods_name":"apple",
           "goods_tax":1.1,
           "prompt_error":"set-failture",
            "prompt_success": "set-success"
        },
           "amount":"5",
           "extension":"02",
           "goods_name":"banana",
           "goods_tax":1.1,
           "prompt_error":"set-failture",
            "prompt_success":"set-success"
        },
           "amount":"",
           "extension":"03",
           "goods_name":"paper",
           "goods tax":0.0,
           "prompt_error": "set-failture",
           "prompt_success":"set-success"
       }
   ],
    "page":1,
    "total_item":3,
    "total_page":1
"status":0
```

#### arameters:

Parameters	Туре	Description	
status	int	Returns 0 if successful.	
amount	Double	Price of the minibar item.	
extension	String	Item code of the minibar item.	
goods_name	String	Name of the minibar item.	
goods_tax	Double	Tax rate of the minibar item. If set to 0, the global tax rate will be used of billing.	

#### **Get Mini Bar information**

Retrieves information about the configured minibar.

#### Request:

#### **Successful Response:**

```
"response":{
    "minibar_settings":{
        "del_extension":"10087",
        "enable_list_goods":"yes",
        "extension":"10086",
        "global_tax":1.0,
        "minibar_enable":"yes",
        "minibar_name":"",
        "prompt":"welcome",
        "verify_skip":"no"
    }
},
"status":0
```

#### **Parameters:**

Parameter	Туре	Description	
status	int	Returns 0 if successful	
extension	String	The number to dial to bill a minibar item to a Guest.	
del_extension	String	The number to dial to remove/cancel a minibar item billed to a Guest.	
prompt	String	The filename of a custom voice prompt on the UCM that's used for the minibar. If this is used as a request parameter, the value must be formatted as record/filename (e.g., if the prompt's file name is kiri.wav, the value must be record/kiri).	
verify_skip	String	yes/no. If yes, housekeepers will use 0000 as their housekeeper code.	
enable_list_goods	String	yes/no. If yes, users will be able to bill multiple items at once by separating each item with *. Otherwise, items must be billed one at a time.	
global_tax	Double	Set the global tax rate of minibar items. If an individual item does not have its own tax rate, this tax rate value will be used.	
minibar_enable	String	yes/no. If yes, the minibar will be enabled, and users will be able to bill minibar items to Guests.	
minibar_name	String	Name of the minibar.	

#### **Add Waiter**

#### **Delete waiter**

#### allforward unconditional

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#### **List PMS rooms**

Lists all existing rooms.

#### Request:

```
{
    "request": {
        "action": "pmsapi",
        "cookie": "sid833196619-1706253582",
        "data": {
             "listPMSRoom": {}
        },
        "token": "16c4a7b1fe890f89c8908f3f522fc18f"
    }
}
```

**successful Response:** 

```
"response":{
                                                                                                                                                                                                                                                                                                                                                                                                                                    A THE PERSON OF 
                  "page":1,
                  "pms_room":[
                                     {
                                                        "account":"",
                                                        "address":"4000",
                                       "chki_status":"yes",
                                                        "credit":"",
                                                        "datein":"2024-01-11 15:59:00",
                                                        "dateout":"2024-01-12 15:59:00",
                                                        "default_permission":"internal",
                                                       "extension":"4000",
                                                       "first_name":"",
                                                       "language":"",
                                                       "last_name":"",
                                                      "maid":"",
                                                        "number":"4000",
                                                        "order_id":"203009081022274000",
                                            "permission":"internal",
                                                        "room":"4000",
                                                        "s_date":"",
                                                       "s_time":"",
                                                      "status":"1",
                                                       "tmp_address":"4000",
                                                       "tmp_extension":"4000",
                                                       "tmp_user_name":"4000",
                                                        "user_name":"",
                                                        "vipcode":""
                  "total_item":3,
                  "total_page":1
},
"status":0
```

# Parameters:

		"ye, "Ole		
	Parameter	A POP OF	Туре	Description
	user_name		String	Guest's full name
	vipcode		String	Guest's category code
(er	address	Not of the	String	Unique identifier of the room
	extension	A Proper de la Company de la C	String	Extension number of the room
	room		String	Room number
	account		String	Guest's account number
, ci	firstname		String	Guest's first name
9	lastname	Wellskiele lie	String	Guest's last name
	language	<b>&amp;</b> )'	String	Language of the phone system prompts. English and Chinese are available by default. Additional language voice packs can be downloaded from the PBX Settings -> Voice Prompts page.
	datein		String	Check-in date

dateout	String	Check-out date	
credit	String	Guest's credit amount	
tmp_addres	String	Guest's room before a room change	
chki_status	String	Room status	
default_permission	String	Default calling privileges of the room upon check-in	
tmp_extension	String	Guest's extension number before a room change	
tmp_user_name	String	Guest's name before a room change	
status	String	Room occupancy status (1 - Occupied, 2 - Unoccupied)	
s_time	String	Room status change time	
s_date	String	Room status change date	

## **Get PMS room goods**

Retrieves the status of purchasable minibar items in a specified room.

#### Request:

#### **Successful Response:**

```
{
    "response":{
        "minibar_goods":[],
        "page":1,
        "total_item":0,
        "total_page":1
    },
    "status":0
}
```

## Parameters:

Parameters	Туре	Description
status	int	Returns 0 if successful.

room	string	Specifies the room to get information of	
goods_name	String	Name of the minibar item	
count	int	Quantity of the minibar item	
amount	Double	Price of the minibar item	
time	String	Log time	
maid	String	Code of the assigned housekeeper	
tax	Double	Tax rate of the minibar item	

## applyChanges

The "applyChanges" action allows users to apply the changes made.

#### o Request

```
{
    "request":{
        "action":"applyChanges",
        "cookie":"sid1965594381-1575027385"
    }
}
```

#### o Response

```
"response":{
     "settings":"0"
},
     "status":0
}
```

Key Word	Value	Mandatory	Туре	Note		
Request parameter	Request parameter					
cookie		yes	string	Returned value after login. All requests must include this value. If no cookie is included, error code -6 will be returned.		
Successful response	е					
status	0	yes	int	Successful response, status is 0		
Failed response						
status		yes	int	Please see the error code list for more details.		

## **Error Return Codes**

Code	Description			
-0	Success			
-1	Invalid parameters			
-5	Need authentication			
-6	Cookie error			
-7	Connection closed			
-8	System timeout			
-9	Abnormal system error!			
-15	Invalid value			
-16	No such item. Please refresh the page and try again			
-19	Unsupported			
-24	Failed to operate data			
-25	Failed to update data			
-26	Failed to get data			
-37	Wrong account or password!			
-43	Some data in this page has been modified or deleted. Please refresh the page and try again			
-44	This item has been added			
-45	Operating too frequently or other users are doing the same operation. Please retry after 15 seconds.			
-46	Operating too frequently or other users are doing the same operation. Please retry after 15 seconds.			
-47	No permission			
-50	Command contains sensitive characters			
-51	Another task is running now			
-57	Operating too frequently, or other users are doing the same operation. Please retry after 60 seconds			
-68	Login Restriction			

-69	There is currently a conference going on. Changes cannot be applied at this time
-70	Login Forbidden
-71	The username doesn't exist
-90	The conference is busy, cannot be edited or deleted
-98	There are currently digital calls. Failed to apply configuration

Error Return Codes

## **Need Support?**

Can't find the answer you're looking for? Don't worry we're here to help!

CONTACT SUPPORT