



# LvSwitch IPPBX API Manual

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## 1 API Version update record

API version 1.0.1

API Version 1.0.1 is applicable for Lvswitch IPPBX v1.5.0.2\_rc25 and above.

## 2 Interface Description

### 1) websocket interface:

The parameters of the request interface are in json format, and the data returned by the interface is in json format.

### 2) Restful interface:

The parameters of the request interface is string or file format, and the data returned by the interface in JSON format

#### 2.1 Communication protocol and port

1) The server side uses websocket protocol, so the client must also use websocket protocol to communicate.

2) Long connection must add heartbeat, heartbeat time had better not exceed one minute, the longest time cannot exceed 90 seconds. If no message is sent to the server within 90 seconds, the server will actively disconnect from the client.

3) Port number:8443.

4) Some interfaces are Restful, requesting interfaces using GET (query), PUT (edit), POST (add), and DELETE (DELETE).

#### 2.2 Communication way

Application server is client side, Lv switch IPPBX is server side.

Lvswitch IPPBX and application server communication have two ways:

1) The client actively requests the interface of the server, such as initiating the call, hanging up and inquiring the wake-up setting;

2) The server actively pushes messages to the client, such as extension status, current call information, call queue information, etc. (long connection must be used)

#### 2.3 Heartbeat

**Request message content:**

```
{  
    "service":"keepAlive"
```

}

**Request parameters (Case sensitive) :**

Name	Description	Type	If necessary
service	Interface name, fixed value: keepAlive	String	Yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"keepAlive",
  "serialId":0
}
    
```

**Response parameters:**

name	description	type
code	Error code ( 0 means success , Other means failure)	String
message	Message content	string
service	Interface name that returns the original value when requested	string
serialId	A random string	String

## 2.4 Log in

**Request message content:**

```

{
  "service":"login",
  "serialId":"5f7f2ac4157417299444a5e9e9514f87",
  "domain":"192.168.23.222",
  "language":"cn",
  "user":"test",
  "password":"123456",
  "number":"8000"
}
    
```

**Request parameters( case sensitive)**

name	Description	Type	If necessary
service	Interface name, fixed value: login	String	yes

serialId	Random string, generated on each request, and cannot be repeated	String	yes
domain	Server ip address	String	no
language	language, Chinese is cn, English is en	String	no
user	The account of the operator desk, should be added in the web management page of the server	String	Yes
password	The password of the operator desk, should be added in the web management page of the server	String	Yes
number	Extension number , It needs to be added on the server web administration page	String	Yes

**Response message content:**

```

{
    "code":0,
    "message":"Success",
    "service":"login",
    "serialId":"1569459635000",
    "companyId":1,
    "currentUserId":"1",
    "domain":"192.168.23.222",
    "number":"3000",
    "user":"zhaowei",
    "sipAccount":"3000",
    "sipPassword":"Aa123456",
    "sipDomain":"192.168.23.222",
    "sipServer": "",
    "forceHangup":"1",
    "isNotify":"0",
    "soundRecordCode": "",
    "token":"555b37bf3444e7b41c335d93277d166c",
    "licenses":{
        "originate_call":1,
        "hold_resume":1,
        "dial_privilege":1,
        "night_service":1,
        "alarm_clock":1,
        "group_manage":1,
        "blind_inquiry_turn":1,
        "contact":1,
        "call_log":1,
    }
}
    
```

```

        "prompt_sound_manage":1,
        "shift":1,
        "force_release":1,
        "webrtc":1,
        "phone_meeting":1,
        "monitor":1,
        "sound_record":1
    }
}
    
```

**Response parameters:**

name	Description	type
code	Error code (0 means success, Other means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
serialId	Random string that returns the original value of the request	string
domain	Server IP address that returns the original value when requested	string
sipDomain	Server ip address , returns the domain value when requested	string
user	Call desk account, return the original value of request	string
number	Extension number that returns the original value requested	string
currentUserId	Id corresponding to the current extension number	string
sipAccount	Extension number, which returns the number value in the original request message	string
token	The token, generated by the server, validates the validity of each request for the server interface and is valid for 24 hours	string
licenses	Lvswitch IPPBX imported Licenses, to control whether the client displays the corresponding module, please refer to the overview of Licenses for detailed description: License description	string
sipPassword	SIP password, Temporarily can't use	string
sipServer	Sip server IP address, empty string, temporarily unavailable	string
companyId	Company id fixed value 1, temporarily unavailable	string
forceHangup	Empty string, temporarily unavailable	string
isNotify	Whether display real-time wake up results, temporarily unavailable	string
soundRecordCode	Blank string,temporarily unavailable	string



## 2.5 Log out

### Request message content:

```
{
  "service":"logout",
  "currentUserId":"1",
  "token":"555b37bf3444e7b41c335d93277d166c",
  "companyId":"1",
  "night":"0",
  "serialId":"1569461059000"
}
```

### Request parameters( case sensitive)

Name	Description	type	If necessary
service	Interface name, fixed value: logout	String	yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes
currentUserId	Extension number id	String	yes
token	token	String	yes
companyId	Company id	String	No
night	If night service is enabled, 1 means enabled, 0 means not enabled	String	No

### Response message content:

```
{
  "code":0,
  "message":"Success",
  "service":"logout",
  "currentUserId":"1",
  "token":"555b37bf3444e7b41c335d93277d166c",
  "serialId":"1569461059000",
  "companyId":1
}
```

### Response parameters:

Name	Description	type
code	Error code (0 means success, Other means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
currentUserId	Extension number corresponding id	string

token	token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id, fixed value 1, temporarily unavailable	string

## 2.6 Licenses

License controls whether the corresponding module of the client is displayed.

After successful login, the server returns to the client. Field value is 1, the client displays the corresponding module, field value is 0 or does not return the field, the client does not display the corresponding module

The corresponding module relationship of each field value is as follows:

originate\_call: Initiate call function

screen\_popup: Call screen function

hold\_resume: hold/resume function

blind\_inquiry\_turn: blind transfer/inquiry transfer function

designated\_answer: designated pickup function

no\_disturb: no disturb

dial\_privilege: dial privilege

contact: Address book

night\_service: night service

call\_log: Call records

webrtc: Built-in voice

prompt\_sound\_manage: Prompt tone management

alarm\_clock: The alarm clock to wake up

bill\_manage: bill management

group\_manage : group management

shift: shifting duty

monitor : monitor

barge: Barge

force\_release: Force release

sound\_record: record

phone\_meeting: The conference call

## 2.7 extension status

The corresponding description of the value of each extension state field is as follows:

IDLE: idle

RESERVED: reserve

HOOK\_OFF: pick up

DIALING: dialling

CALLER\_RINGING: incoming

CALLEE\_RINGING: outgoing

CALLING: calling

BUSY: callee busy  
 OTHER: other  
 ALARM: alarm  
 HOLDING: on hold  
 MONITOR: monitor  
 FORCE\_CALLIN: barge  
 CONF\_SPEAKING: conference speaking  
 CONF\_MUTE: conference mute  
 RECORDING: call recording

## 2.8 test

Open firefox or chrome, press F12 to open the debugging Console, enter the code below (copy and paste) in the Console column, and press enter to execute. Note: the IP address needs to be changed to the server's IP address. (or put the following code into an HTML page and run it in js)

```

ws = new WebSocket("ws://192.168.*.*:8443/websocket");
ws.onopen = function() {
    alert("连接成功");
    ws.send('test');//测试消息字符串必须为 test
    alert("给服务端发送一个字符串: test");
};
ws.onmessage = function(e) {
    alert("收到服务端的消息: " + e.data);
};
    
```

The firefox browser console displays the following:



Finally, the message sent by the pop-up server is as follows, indicating that the communication with the server interface is successful, otherwise, it fails.



## 2.9 Possible reasons for connection failure

- 1) Server firewalls (including cloud server security groups) block connections;
- 2) The protocol used by the client and the server is inconsistent.
- 3) Wrong IP or port;
- 4) Server not getting started.
- 5) internal errors in the server interface

## 3 Rest interface

### 3.1 Rest interface description

The interface of uploading prompt sound files, deleting prompt sound files and password modification of the telephone station account adopts Rest style. The format of the received data when the interface is requested is 'application/json'.

- 1) Request way  
Uses standard HTTP method,such as GET、PUT、POST and DELETE  
The protocol can be http or https,The HTTPS protocol is used uniformly below.
- 2) Request header to add validation information, details refer to [authentication](#)

- 3) Return value:  
Calling each interface returns an HTTP Status Code,  
201 represents successful creation;  
204 represents delete successful  
200 represents modify or inquiry success  
500 generally represents some parameters error or Or an internal error in an interface program

When the interface is successful, the non-query interface generally returns json-formatted data{"code":0, "message": "Success"};

When the interface encounters an error, it returns data in Json format {"code":1, "message": "号码不能为空"}Where the message content is an error message, and the message content here is only for reference;

The following non-query interfaces are not described in detail.

### 3.2 Rest interface authentication

Uses Basic Authorization and add in the request header:

```
Authorization: Basic cmVzdEFkbWluOjJjNjY1ZmM1M2Q0YjliMTJiYjY0M2ZjN2MyYTl1ZDM3
```

Here the account and password have been encrypted, directly added in the request header.

**Authorization: "Basic cmVzdEFkbWluOjJjNjY1ZmM1M2Q0YjliMTJiYjY0M2ZjN2MyYTl1ZDM3"**

### 3.4 The Rest interface changes the password of the operator console account

URL Address: https:// 192.168.\*.\*/ippbx/rest/users

Method: PUT

Parameters:

parameters	Description	type	necessar y
id	Extension number id	string	yes
pass	New password	string	yes

## 4 Call control

### 4.1 Call

Request message content:

```
{
  "currentUserId":"1",
  "number":"3001",
  "service":"dialCall",
  "serialId":"1570690501000",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4"
}
```

Request parameters (case sensitive) :

name	Description	type	If necessary
service	Interface name, fixed value: dialCall	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	token	String	yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes
number	number	String	yes

**Request message content:**

```

{
  "code":0,
  "message":"","
  "serialId":"1570690501000",
  "service":"dialCall",
  "operate":""
}
    
```

**Request paramters:**

name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message	string
service	Interface name that returns the original value when requested	String
operate	Operate type that returns the original value when requested	String
serialId	Random string that returns the original value when requested	String

## 4.2 Hang up

**Request message content :**

```

{
  "currentUserId":"1",
  "service":"forceHangUp",
  "channelA":"SIP/3000-00000009",
  "myExten":"3000",
  "serialId":"1570690847000",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4"
}
    
```

**Request parameters ( case sensitive ) :**

Name	Description	type	If necessary
service	Interface name, fixed value: forceHangUp	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	token	String	yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes
myExten	The number (either side of the call) used to generate log information	String	yes

channelA	Channel (either side of a call)	string	yes
----------	---------------------------------	--------	-----

**Request message content :**

```

{
  "code":0,
  "message": "",
  "serialId": "1570690847000",
  "service": "forceHangUp",
  "operate": ""
}
    
```

**Response parameters:**

name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message	string
service	Interface name that returns the original value when requested	string
operate	Operate type that returns the original value when requested	string
serialId	Random string that returns the original value when requested	string

### 4.3 Hold

**Request message content :**

```

{
  "service": "holdCall",
  "currentUserId": "1",
  "token": "21c987cdf9308462e1435cdaa9d0f7c4",
  "channelId": "SIP/3000-00000011",
  "serialId": "1570694134000"
}
    
```

**Request parameters (case sensitive) :**

Name	Description	type	If necessary
service	Interface name , fixed value: holdCall	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
channelId	Soft console extension channel	string	yes

**Response message content:**

```

{
  "code":0,
  "message": "",
  "serialId":"1570694134000",
  "service":"holdCall",
  "operate":""
}
    
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message	string
service	Interface name that returns the original value when requested	string
operate	Operate type that returns the original value when requested	string
serialId	Random string that returns the original value when requested	string

#### 4.4 Resume

Resume maintained calls. There are two scenarios:

- 1) The extension of the soft console has hung up:  
 exten、 resumeChannelId 和 resumeExten parameters can't be blank  
 channelId parameter can be blank.
- 2) The extension has not hung up:  
 channelId、 resumeChannelId 和 resumeExten parameters can't be blank  
 resumeExten Parameter to generate log information。 If resumeExten is empty, the  
 saved log information will not be complete. Exten parameter can be blank.

**Request message content:**

```

{
  "service":"resumeCall",
  "currentUserId":"1",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4",
  "channelId":"SIP/3000-00000011",
  "exten":"3000",
  "resumeExten":"3001",
  "resumeChannelId":"SIP/3001-00000012",
  "serialId":"1570695492000"
}
    
```



```
}

```

**Request parameters (case sensitive) :**

Name	Description	type	If necessary
service	Interface name, fixed value: resumeCall	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	TOKEN	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
channelId	The extension number channel for client login of the soft console	string	no
exten	The extension number of the operator's client login	string	no
resumeExten	Number resumed	string	yes
resumeChannelId	Channel resumed	string	yes

**Response message content:**

```
{
  "code":0,
  "message": "",
  "serialId": "1570695492000",
  "service": "resumeCall",
  "operate": ""
}
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
serialId	Random string that returns the original value when requested	string

#### 4.5 Queue specified answer

**Request message content:**

```
{
```

```

        "currentUserId":"1",
        "service":"answerQueueCall",
        "serialId":"1570759328000",
        "token":"9ac7a1218bd2d620639fd6c08cb4a5a9",
        "myExten":"3000",
        "exten":"3001",
        "incomingChannelId":"SIP/3001-0000001e"
    }

```

**Request parameters (case sensitive) :**

Name	Description	type	If necessary
service	Interface name, fixed value: blindTransferCall	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	Token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
myExten	The extension number of the operator's client login	string	yes
exten	Incoming number ( used to generate log information )	string	yes
incomingChannelId	Incoming number channel	string	yes

**Response message content:**

```

{
    "code":0,
    "message": "",
    "serialId":"1570759328000",
    "service":" answerQueueCall ",
    "operate":""
}

```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operate type that returns the original value when requested	string

serialId	Random string that returns the original value when requested	string
----------	--	--------

#### 4.6 Blind transfer

##### Request message content:

```
{
  "currentUserId":"1",
  "number":"3003",
  "service":"blindTransferCall",
  "channel":"SIP/3000-00000019",
  "serialId":"1570756536000",
  "token":"9ac7a1218bd2d620639fd6c08cb4a5a9"
}
```

##### Request parameters (case-sensitive):

Name	Description	type	If necessary
service	Interface name, fixed value: blindTransferCall	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	Token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
number	Extension number (other than in conversation)	string	yes
channel	Extension number channel of the soft console account	String	yes

##### Response message content:

```
{
  "code":0,
  "message": "",
  "serialId":"1570756536000",
  "service":"blindTransferCall",
  "operate":""
}
```

##### Response parameters:

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string

operate	Operate type that returns the original value when requested	string
serialId	Random string that returns the original value when requested	string

#### 4.7 Inquiry transfer

##### Request message content:

```

{
  "currentUserId":"1",
  "number":"3003",
  "service":"transferCall",
  "channel":"SIP/3000-0000001b",
  "serialId":"1570756762000",
  "token":"9ac7a1218bd2d620639fd6c08cb4a5a9"
}
    
```

##### Request parameters (case-sensitive):

Name	Description	Type	If necessary
service	Interface name , fixed value: blindTransferCall	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	Token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
number	Extension number (other than in conversation)	string	yes
channel	Extension number channel of the soft console account	String	Yes

##### Response message content:

```

{
  "code":0,
  "message": "",
  "serialId":"1570756762000",
  "service":"transferCall",
  "operate":""
}
    
```

##### Response parameters:

Name	Description	Type
code	Error code (0 means success, others means failure)	string

message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operate type that returns the original value when requested	string
serialId	Random string that returns the original value when requested	String

#### 4.8 Forced demolition

##### Request message content:

```
{
  "currentUserId":"1",
  "service":"forceHangUp",
  "channelA":"SIP/3001-0000001e",
  "myExten":"3000",
  "serialId":"1570757514000",
  "token":"9ac7a1218bd2d620639fd6c08cb4a5a9"
}
```

##### Request parameters (case-sensitive):

Name	Description	type	If necessary
service	Interface name, fixed value : forceHangUp	string	yes
currentUserId	Id corresponding to extension number	string	yes
token	Token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
myExten	The extension number of the operator's client login	string	yes
channelA	Either side of a call	string	yes

##### Response message content:

```
{
  "code":0,
  "message": "",
  "serialId":"1570757514000",
  "service":"forceHangUp",
  "operate":""
}
```

**Response parameters:**

Name	Description	Type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operate type that returns the original value when requested	string
serialId	Random string that returns the original value when requested	string

#### 4.9 Force talk

**Request message content:**

```

{
  "currentUserId":"1",
  "service":"forceSpyTalk",
  "channelA":"SIP/3002-00000022",
  "myExten":"3000",
  "serialId":"1570758241000",
  "token":"9ac7a1218bd2d620639fd6c08cb4a5a9"
}
    
```

**Request parameters (case-sensitive):**

Name	Description	type	If necessary
service	Interface name, fixed value : forceSpyTalk	String	yes
currentUserId	Id corresponding to extension number	String	yes
token	Token	String	yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes
myExten	The extension number of the operator's client login	String	yes
channelA	Either side of a call	String	yes

**Response message content:**

```

{
  "code":0,
  "message": "",
  "serialId":"1570758241000",
  "service":"forceSpyTalk",
}
    
```

```

        "operate":""
    }

```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	String
message	Message content	String
service	Interface name that returns the original value when requested	String
operate	Operate type that returns the original value when requested	String
serialId	Random string that returns the original value when requested	String

#### 4.10 Spy listen

**Request message content:**

```

{
    "currentUserId":"1",
    "service":"spyListen",
    "channelA":"SIP/3002-00000022",
    "myExten":"3000",
    "serialId":"1570758568000",
    "token":"9ac7a1218bd2d620639fd6c08cb4a5a9"
}

```

**Request parameters (case-sensitive):**

Name	Description	type	If necessary
service	Interface name, fixed value: forceSpyTalk	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
token	Token	String	Yes
serialId	Random string, generated on each request, and cannot be repeated	String	Yes
myExten	The extension number of the operator's client login	String	Yes
channelA	Either side of a call	String	Yes

**Response message content:**

```

{

```

```

        "code":0,
        "message": "",
        "serialId": "1570758568000",
        "service": "spyListen",
        "operate": ""
    }

```

**Response parameters:**

Name	Description	Type
code	Error code (0 means success, others means failure)	String
message	Message content	String
service	Interface name that returns the original value when requested	String
operate	Operate type that returns the original value when requested	String
serialId	Random string that returns the original value when requested	String

## 5 Address book

### 5.1 address book query

Check all departments and their contact information in the enterprise contact book, all groups and their contact information in the personal contact book.

**Request message content:**

```

{
    "service": "tree",
    "currentUserId": "1",
    "operate": "query",
    "token": "3f2f26de978958877ff8643f750fd3b7",
    "serialId": "1569462869000"
}

```

**Request parameters (case-sensitive):**

Name	Description	Type	If necessary
service	Interface name, fixed name: tree	String	YES
operate	Operation type, fixed value: query	String	YES
serialId	Random string, generated on each request, and cannot be repeated	String	YES



token	Token	String	YES
currentUserId	Id corresponding to extension number	String	YES

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"tree",
  "operate":"query",
  "currentUserId":"1",
  "token":"3f2f26de978958877ff8643f750fd3b7",
  "serialId":"1569462869000",
  "companyId":1,
  "departments":[
    {
      "id":"1",
      "name":"software department",
      "contacts":[
        {
          "id":"2",
          "name":"fenshan",
          "number1":"1365888869",
          "number2":"13562221111"
        }
      ]
    },
    {
      "id":"2",
      "name":"product department",
      "contacts":{
      }
    },
    {
      "id":"3",
      "name":"test department",
      "contacts":[
        {
          "id":"3",
          "name":"group 1",
          "number1":"6601",
          "number2":""
        }
      ],
    }
  ]
}
    
```

```

        {
            "id": "4",
            "name": "group 2",
            "number1": "6602",
            "number2": ""
        },
        {
            "id": "5",
            "name": "test no.1",
            "number1": "3004",
            "number2": "3004"
        },
        {
            "id": "7",
            "name": "xueyaohua",
            "number1": "3005",
            "number2": "3005"
        }
    ]
},
"groups": [
    {
        "id": "1",
        "name": "default",
        "contacts": [
            {
                "id": "1",
                "name": "zhaowei",
                "number1": "1331313",
                "number2": "13506208402"
            }
        ]
    }
]
}

```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	String
message	Message content	String

service	Interface name that returns the original value when requested	String
operate	Operation type that returns the original value when requested	String
currentUserId	Id corresponding to the current extension number	String
token	Token	String
serialId	Random string that returns the original value of the request	String
companyId	Company id	String
departments	Contact book department information, where the id is the department id, the name is the department name, and contacts is the contact information in the department. The id in contacts information is the contact id, name is the contact name, number1 is the contact number1, number2 is the contact number2	String
groups	Address book personal group information, where the id is the group id, name is the group name, contacts is the contact information in this group. The id in contacts information is the contact id, name is the contact name, number1 is the contact number1, number2 is the contact number2	String

## 5.2 Add enterprise address book departments

### Request message content:

```
{
  "service":"department",
  "operate":"add",
  "currentUserId":"1",
  "token":"3f2f26de978958877ff8643f750fd3b7",
  "name":"market department",
  "departmentId": "",
  "serialId":"1569465098000"
}
```

### Request parameters (case-sensitive):

Name	Description	type	If necessary
service	Interface name, fixed value: department	string	YES
operate	Operation type, fixed value: add	string	YES
serialId	Random string, generated on each request, and	string	YES

	cannot be repeated		
token	Token	string	YES
currentUserId	Corresponding id of extension number	string	YES
name	Department name	string	YES
departmentId	Department id	string	YES

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"department",
  "operate":"add",
  "currentUserId":"1",
  "token":"3f2f26de978958877ff8643f750fd3b7",
  "serialId":"1569465098000",
  "companyId":1
}
    
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	String
message	Message content	String
service	Interface name that returns the original value when requested	String
operate	Operation type that returns the original value when requested	String
currentUserId	Id corresponding to the current extension number	String
token	Token	String
serialId	Random string that returns the original value when requested	String
companyId	Company id	String

### 5.3 inquire individual department of enterprise address book

**Request message content:**

```

{
  "service":"department",
  "currentUserId":"1",
  "operate":"init",
  "departmentId":"4",
  "token":"3f2f26de978958877ff8643f750fd3b7",
}
    
```

```

        "serialId":"1569465488000"
    }
    
```

**Request parameters (case-sensitive):**

Name	Description	type	If necessary
service	Interface name, fixed value: department	String	YES
operate	Operation type, fixed value: init	String	YES
serialId	Random string, generated on each request, and cannot be repeated	String	YES
token	Token	String	YES
currentUserId	Id corresponding to the current extension number	String	YES
departmentId	Department id	String	YES

**Response message content:**

```

{
    "code":0,
    "message":"Success",
    "service":"department",
    "operate":"init",
    "currentUserId":"1",
    "token":"3f2f26de978958877ff8643f750fd3b7",
    "serialId":"1569465488000",
    "companyId":1,
    "id":4,
    "name":"market department"
}
    
```

**Response parameters:**

Name	Description	Type
code	Error code (0 means success, others means failure)	String
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	Token	string

serialId	Random string that returns the original value when requested	string
companyId	Company id	string
Id	Department id	string
name	Department name	string

#### 5.4 Edit corporate address book department

##### Request message content:

```
{
  "service":"department",
  "operate":"update",
  "currentUserId":"1",
  "token":"3f2f26de978958877ff8643f750fd3b7",
  "name":"market department",
  "departmentId":"4",
  "serialId":"1569465792000"
}
```

##### Request parameters (case-sensitive):

Name	Description	type	If necessary
service	Interface name, fixed value: department	String	Yes
operate	Opearate type, fixed value: update	String	Yes
serialId	Random string, generated on each request, and cannot be repeated	String	Yes
token	Token	String	Yes
currentUserId	Id corresponding to the current extension number	String	Yes
name	Department name	String	Yes
departmentId	Department id	String	Yes

##### Response message content:

```
{
  "code":0,
  "message":"Success",
  "service":"department",
  "operate":"update",
  "currentUserId":"1",
  "token":"3f2f26de978958877ff8643f750fd3b7",
  "serialId":"1569465965000",
  "companyId":1
}
```

}

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	String
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	Token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string

## 5.5 Delete corporate address book departments

**Request message content:**

```

{
    "service":"department",
    "currentUserId":"1",
    "operate":"delete",
    "departmentId":"4",
    "token":"3f2f26de978958877ff8643f750fd3b7",
    "serialId":"1569466524000"
}
    
```

**Request parameters (case-sensitive):**

Name	Description	type	If necessary
service	Interface name, fixed value: department	String	Yes
currentUserId	Id corresponding to the current extension number	String	Yes
operate	Operate type: delete	String	Yes
departmentId	Department id	String	Yes
token	Token	String	Yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes

**Response message content:**

```

{
    "code":0,
    
```

```

    "message":"Success",
    "service":"department",
    "operate":"delete",
    "currentUserId":"1",
    "token":"3f2f26de978958877ff8643f750fd3b7",
    "serialId":"1569466524000",
    "companyId":1
  }

```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	String
message	Message content	String
service	Interface name that returns the original value when requested	String
operate	Operation type that returns the original value when requested	String
currentUserId	Id corresponding to the current extension number	String
token	Token	String
serialId	Random string that returns the original value of the request	String
companyId	Company id	String

## 5.6 Add corporate contacts

**Request message content:**

```

{
  "service":"contact",
  "operate":"add",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "name":"Zhangsan",
  "position":"test engineer",
  "number1":"13622221111",
  "number2":"13811112222",
  "email":"123456@qq.com",
  "remark":"remark 123456",
  "card":"026",
  "address":"suzhou",
  "sex":"1",
  "departmentId":"3",
  "id":"",
  "serialId":"1569468426000"
}

```



}

**Request parameters (case-sensitive):**

Name	Description	Type	If necessary
service	Interface name, fixed value: contact	string	yes
currentUserId	Id corresponding to the current extension number	string	yes
operate	Operation type, fixed value: add	string	yes
departmentId	Department id	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
name	Name	string	yes
position	Post	string	no
number1	Number 1	string	no
number2	number2	string	no
email	Email	string	no
remark	remark	string	no
card	Work number	string	no
address	Address	string	no
sex	Gender (1: male; 0: female) , default value 0	string	no
departmentId	Department id	string	yes
id	Contact id, This parameter is not set	string	no

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"contact",
  "operate":"add",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569468426000",
  "companyId":1
}
    
```

**Response parameters:**

name	Description	type
code	Error code (0 means success, others means failure)	String

message	Message content	String
service	Interface name that returns the original value when requested	String
operate	Operation type that returns the original value when requested	String
currentUserId	Id corresponding to the current extension number	String
token	Token	String
serialId	Random string, returns the original value when requested	String
companyId	Company id	String

## 5.7 Inquire enterprise address book department, individual student record group or contact person

### Request message content:

```

{
  "service":"contact",
  "currentUserId":"1",
  "operate":"init",
  "type":"contact",
  "id":"9",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569475817000"
}
    
```

### Request parameters (case-sensitive):

Name	Description	Type	是否必需
service	Interface name, fixed value: contact	String	yes
currentUserId	Id corresponding to the current extension number	String	yes
operate	Operate type, fixed value: init	String	yes
type	Enumerated values ( department, group, contact ), department: Inquire all departments of the enterprise address book group: Search all groups in personal address book; contact: Look up contacts in your business or personal address book	String	yes
departmentId	The department id, if set, returns the original value in the response message content	String	no
groupId	Group id, which, if set, returns the original value in the content of the response message	String	no

id	Contact id, inquiry contact person cannot be empty	String	no
token	token	String	yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"contact",
  "operate":"init",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569475817000",
  "companyId":1,
  "departmentId":0,
  "groupId":0,
  "contact":{
    "address":"suzhou",
    "card":"026",
    "companyId":"1",
    "departmentId":"3",
    "email":"123456@qq.com",
    "id":"9",
    "name":"zhangsan",
    "number1":"13622221111",
    "number2":"13811112222",
    "position":"test engineer",
    "remark":"Remark123456",
    "sex":"1"
  },
  "departments":[
    {
      "id":"1",
      "name":"software department"
    },
    {
      "id":"2",
      "name":"product department"
    },
    {

```

```

        "id": "3",
        "name": "test department"
    }
},
"totalCount": 0,
"type": "contact"
}
    
```

**Response parameters:**

name	Description	Type
code	Error code (0 means success, others means failure)	String
message	Message content	String
service	Interface name that returns the original value when requested	String
operate	Operation type that returns the original value when requested	String
type	Query type that returns the original value when requested	String
currentUserId	Id corresponding to the current extension number	String
token	Token	String
serialId	Random string that returns the original value of the request	String
companyId	Company id	String
departmentId	Department id, return the original value when the request is made, or 0 if the request is not set	String
groupId	Group id, return the original value when the request, if the request is not set, return 0	String
departments	This value is not empty when checking all departments or contacts in the company address book. Where the id is the department id and the name is the department name	String
groups	If you query all groups or contacts in the personal address book, the value is not empty, where the id is the group id and the name is the group name	String
contact	Contact information, which is not null when the contact information is queried. Address: address, card: job number, companyId: the company id, departmentId, department id (query enterprise address book contact person, the value is not null), groupId, group id (query personal address book contact person, the value is not null), email: email, id: contact id, name: name, number1: number 1, number2:	String

	number 2, the position: position, sex, sex (1: male; 0: female)	
totalCount	0, Temporarily out of use	String

## 5.8 Edit business contacts

### Request message content:

```

{
  "service":"contact",
  "operate":"update",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "name":"Zhangsan",
  "position":"test manager",
  "number1":"13622221111",
  "number2":"13811112222",
  "email":"123456@qq.com",
  "remark":"Remark123456",
  "card":"026",
  "address":"Suzhou",
  "sex":"1",
  "departmentId":"3",
  "id":"9",
  "serialId":"1569483011000"
}
    
```

### Request parameters (case-sensitive):

Name	Description	type	If necessary
service	Interface name, fixed value: contact	string	yes
currentUserId	Id corresponding to the extension number	string	yes
operate	Operate type, fixed value: update	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
name	Name	string	yes
position	Position	string	no
number1	number1	string	no
number2	number2	string	no
email	Email	string	no
remark	Remark	string	no

card	Job number	string	no
address	address	string	no
sex	gender (1: male; 0: female) , default value 0	string	no
departmentId	Department id	string	yes
id	Contact id	string	yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"contact",
  "operate":"update",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569483011000",
  "companyId":1
}
    
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	The message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	Token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string

## 5.9 Delete a single contact in the address book

Delete contacts in your business or personal address book

**Request message content:**

```

{
  "service":"contact",
  "currentUserId":"1",
  "operate":"delete",
  "id":"10",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
}
    
```

```

        "serialId":"1569483282000"
    }
    
```

**Request parameters (case sensitive) :**

Name	Description	type	If necessary
service	Interface name, fixed value: contact	string	yes
currentUserId	Id corresponding to the extension number	string	yes
operate	Operation type, fixed value: delete	string	yes
token	Token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
id	Contact id	string	yes

**Response message content:**

```

{
    "code":0,
    "message":"Success",
    "service":"contact",
    "operate":"delete",
    "currentUserId":"1",
    "token":"4e53a0f4acad9d59df518dd56a0283f3",
    "serialId":"1569483282000",
    "companyId":1
}
    
```

**Response parameters:**

Name	description	type
code	Error code (0 means success, others means failure)	string
message	The message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	Token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string

## 5.10 Batch delete contacts in the contact book

Delete contacts in your business or personal address book

**Request message content:**

```

{
  "service":"contact",
  "operate":"multipleDelete",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "type":"group",
  "ids":[
    "12",
    "13"
  ],
  "serialId":"1569488858000"
}
    
```

**Request parameters (case sensitive) :**

NAME	Description	type	If necessary
service	Interface name, fixed value: contact	string	yes
currentUserId	Id corresponding to the current extension number	string	yes
operate	Operation type, fixed value: delete	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
type	Delete type, enumeration (group, department) group: Delete contacts in your personal address book; department: Delete corporate contacts	string	yes
ids	Contact ids format like: ["12","13"]	string	yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"contact",
  "operate":"multipleDelete",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569488858000",
  "companyId":1,
  "type":"group"
}
    
```



```
}

```

**Response parameters:**

Name	Description	Type
code	Error code (0 means success, others means failure)	string
message	The message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
type	Delete type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string

### 5.11 Add personal address book groups

**Required message content:**

```
{
  "service":"group",
  "operate":"add",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "name":"friend",
  "groupId":"",
  "serialId":"1569484600000"
}
```

**Request parameters (case sensitive) :**

name	Description	type	If necessary
service	Interface name, fixed value: group	string	yes
operate	Operation type, fixed value: add	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
token	token	string	yes
currentUserId	Id corresponding to the extension number	string	yes
name	Group name	string	yes
groupId	Group id	string	no

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"group",
  "operate":"add",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"156948460000",
  "companyId":1
}
    
```

**Response parameters:**

Name	description	type
code	Error code (0 means success, others means failure)	string
message	The message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	token	string
serialId	Random string returns the original value when requested	string
companyId	Company id	string

## 5.12 Search individual address book for individual groups

**Request message content:**

```

{
  "service":"group",
  "currentUserId":"1",
  "operate":"init",
  "groupId":"14",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569484836000"
}
    
```

**Request parameters (case-sensitive):**

Name	Description	type	If necessary
service	Interface name, fixed value: group	string	yes
operate	Operate type fixed value: init	string	yes

serialId	Random string, generated on each request, and cannot be repeated	string	yes
token	token	string	yes
currentUserId	Id corresponding to the current extension number	string	yes
groupId	Group id	string	yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"group",
  "operate":"init",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569484836000",
  "companyId":1,
  "id":14,
  "name":"friend"
}
    
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	The message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	token	string
serialId	Random string, returns the value of request	string
companyId	Company id	string
id	Group id	string
name	Group name	string

### 5.13 Edit individual address book groups

**Required message content:**

```

{
  "service":"group",
  "operate":"update",
}
    
```

```

"currentUserId":"1",
"token":"4e53a0f4acad9d59df518dd56a0283f3",
"name":"friend",
"groupId":"14",
"serialId":"1569485281000"
}
    
```

**Request parameters(case sensitive):**

Name	Description	type	If necessary
service	Interface name, fixed value: group	String	yes
operate	Operation type , fixed value: update	String	yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes
token	token	String	yes
currentUserId	Id corresponding to the current extension number	String	yes
name	Department name	String	yes
groupId	Group id	String	yes

**Response message content:**

```

{
"code":0,
"message":"Success",
"service":"group",
"operate":"update",
"currentUserId":"1",
"token":"4e53a0f4acad9d59df518dd56a0283f3",
"serialId":"1569485281000",
"companyId":1
}
    
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string

token	Token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string

## 5.14 Delete personal address book groups

### Request message content:

```
{
  "service": "group",
  "currentUserId": "1",
  "operate": "delete",
  "groupId": "14",
  "token": "4e53a0f4acad9d59df518dd56a0283f3",
  "serialId": "1569485385000"
}
```

### Request parameters (case-sensitive):

Name	Description	type	If necessary
service	Interface name, fixed value: group	String	yes
currentUserId	Corresponding id of extension number	String	yes
operate	Operation type, fixed value: delete	String	yes
groupId	Group id	String	yes
token	Token	String	yes
serialId	Random string, generated on each request, and cannot be repeated	String	yes

### Response message content:

```
{
  "code": 0,
  "message": "Success",
  "service": "group",
  "operate": "delete",
  "currentUserId": "1",
  "token": "4e53a0f4acad9d59df518dd56a0283f3",
  "serialId": "1569485385000",
  "companyId": 1
}
```

### Response parameters:

Name	Description	type
code	Error code (0 means success, others means failure)	String

message	Message content	String
service	Interface name that returns the original value when requested	String
operate	Operation type that returns the original value when requested	String
currentUserId	Id corresponding to the current extension number	String
token	Token	String
serialId	Random string that returns the original value of the request	String
companyId	Company id	String

## 5.15 Add personal contacts in address book

### Request message content:

```

{
  "service":"contact",
  "operate":"add",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "name":"Lisi",
  "position":"product manager",
  "number1":"13655552222",
  "number2":"13655558888",
  "email":"111@qq.com",
  "remark":"Remark111",
  "sex":"1",
  "groupId":"1",
  "card":"036",
  "address":"Nanjing",
  "id":"",
  "serialId":"1569485695000"
}
    
```

### Request parameters (case sensitive) :

Name	Description	type	If necessary
service	Interface name, fixed value: contact	string	yes
currentUserId	Corresponding id of extension number	string	yes
operate	Operation type, fixed value: add	string	yes
departmentId	Department id	string	yes
token	Token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes

name	Name	string	yes
position	Position	string	no
number1	Number 1	string	no
number2	Number 2	string	no
email	Email	string	no
remark	Remark	string	no
card	Job number	string	no
address	Address	string	no
sex	Gender (1: male; 0: female), default value 0	string	no
groupId	Group id	string	yes
id	Contact id can not be set	string	no

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"contact",
  "operate":"add",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569485695000",
  "companyId":1
}
    
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Corresponding id of the extension number	string
token	token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string

## 5.16 Edit personal contacts

### Request message content:

```

{
  "service":"contact",
  "operate":"update",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "name":"Lisi",
  "position":"product manager",
  "number1":"13655552222",
  "number2":"13655558888",
  "email":"111@qq.com",
  "remark":"Remark111",
  "sex":"1",
  "groupId":"1",
  "card":"036",
  "address":"Nanjing",
  "id":"11",
  "serialId":"1569485890000"
}
    
```

### Request parameters (case sensitive) :

Name	Description	type	If necessary
service	Interface name, fixed value: contact	string	yes
currentUserId	ID corresponding to extension number	string	yes
operate	Operation type, fixed value: update	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
name	Name	string	yes
position	position	string	no
number1	number1	string	no
number2	Number 2	string	no
email	Email	string	no
remark	remark	string	no
card	Work number	string	no
address	address	string	no
sex	gender (1: male; 0: female) , default value 0	string	no
groupId	Group id	string	yes



id	Contact person id	string	yes
----	-------------------	--------	-----

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"contact",
  "operate":"update",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569483011000",
  "companyId":1
}
```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	ID corresponding to extension number	string
token	token	string
serialId	Random string,returns the value of request	string
companyId	Company id	string

## 5.17 Check your business or personal contact list

**Query the enterprise address book contact list request message content:**

```
{
  "service":"contact",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "operate":"query",
  "groupId":"0",
  "type":"department",
  "page":1,
  "pageSize":"10",
  "serialId":"1569486699000"
}
```

Remark:When the value of type changes to group,query the contact in the personal address book.

**Request parameters (case-sensitive):**

Name	Description	type	If necessary
service	Interface name, fixed value: contact	string	yes
currentUserId	ID corresponding to extension number	string	yes
operate	Operation type, fixed value: update	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
type	Enumerated values (group, department) group: Check your personal address book; department: Check your business address book	string	yes
departmentId	Department id, The inquiry enterprise address book contact person may take the inquiry condition, 0 represents the inquiry all department	string	no
groupId	Group id, check personal address book contact person can be used as a query condition, 0 represents the query of all groups	string	no
page	The current page number	string	yes
pageSize	Number of records per page	string	yes

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"contact",
  "operate":"query",
  "currentUserId":"1",
  "token":"4e53a0f4acad9d59df518dd56a0283f3",
  "serialId":"1569487199000",
  "companyId":1,
  "type":"department",
  "page":1,
  "pageSize":10,
  "totalCount":"4",
  "groupId":0,
  "departmentId":0,
  "contacts":[
```

```

    {
      "id": "3",
      "name": "group 1",
      "number1": "6601",
      "number2": "",
      "mark": "",
      "sex": "maie",
      "departmentName": "test department"
    },
    {
      "id": "4",
      "name": "group 2",
      "number1": "6602",
      "number2": "",
      "mark": "",
      "sex": "male",
      "departmentName": "test department"
    },
    {
      "id": "5",
      "name": "test no.1",
      "number1": "3004",
      "number2": "3004",
      "mark": "",
      "sex": "male",
      "departmentName": "test department"
    },
    {
      "id": "7",
      "name": "xueyaohua",
      "number1": "3005",
      "number2": "3005",
      "mark": "",
      "sex": "male",
      "departmentName": "test department"
    }
  ],
  "groups": {
  },
  "departments": [
    {
      "id": "1",

```

```

        "name":"software department"
    },
    {
        "id":"2",
        "name":"product department"
    },
    {
        "id":"3",
        "name":"test department"
    }
    ]
}
    
```

**Response parameters:**

Name	Description	type
code	Error code (0 represents success, others represent failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
type	Query type that returns the original value when requested	string
currentUserId	Corresponding id of the current extension number	string
token	Token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string
page	Current page number	string
pageSize	Number of records per page	string
totalCount	The total number of records	string
departmentId	Department id, which returns the original value when requested	string
departmentName	The name of the department, which is returned only when the contact person in the enterprise address book is queried	string
groupName	Group name, which is returned only when you query your personal address book	string
groupId	Group id that returns the original value when requested	string
contacts	Contact information; Where id: contact person id, name: name, number1: number 1, number2: number 2, mark:remark, sex: gender	string
groups	All grouping information, where id: group id, name: group	string

	name	
departments	All department information , in which id: department id, name: department name	string

## 6 Extension Management

### 6.1 Query Extension Permission

The extension permission is a fixed value and only provides a query interface.

**Request message content:**

```
{
  "service":"callACL",
  "currentUserId":"1",
  "operate":"query",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569745255000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: callACL	String	Yes
currentUserId	The id corresponding to the current extension number	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting , and can not repeat	String	Yes

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"callACL",
  "operate":"query",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569745255000",
  "companyId":1,
  "callACLs":[
    {
      "id":1,
```

```

        "name":"Inside the device",
        "defaultPolicy":"deny"
    },
    {
        "id":3,
        "name":"Local",
        "defaultPolicy":"deny"
    },
    {
        "id":4,
        "name":"National Long Distance",
        "defaultPolicy":"deny"
    },
    {
        "id":5,
        "name":"International Long Distance",
        "defaultPolicy":"deny"
    }
    ]
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Ramdom string:Return the value at the time of request	String
companyId	Company id	String
callACLs	Extension permission list, where id: permission id; name: permission name; defaultPolicy: temporarily useless	String

## 6.2 Query Extension List

**Request message content:**

```

{
    "service":"extension",
    "currentUserId":"1",
}
    
```

```

    "operate":"query",
    "token":"7e3a12d4beea1aa3e73f16e5f8ad13c3",
    "serialId":"1570762832000"
  }

```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: extension	String	Yes
currentUserId	The id corresponding to the current extension	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting , and can not repeat	String	Yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"extension",
  "operate":"query",
  "currentUserId":"1",
  "token":"7e3a12d4beea1aa3e73f16e5f8ad13c3",
  "serialId":"1570762832000",
  "companyId":1,
  "aclList":[
    {
      "companyId":1,
      "defaultPolicy":"deny",
      "id":1,
      "name":"Inside the device"
    },
    {
      "companyId":1,
      "defaultPolicy":"deny",
      "id":3,
      "name":"Local"
    },
    {
      "companyId":1,
      "defaultPolicy":"deny",
      "id":4,

```

```

        "name":"National Long Distance"
    },
    {
        "companyId":1,
        "defaultPolicy":"deny",
        "id":5,
        "name":"International Long Distance"
    }
],
"extensionList":[
    {
        "alarm":0,
        "alarmTime":"",
        "anotherChannel":"",
        "anotherNumber":"",
        "answerTime":"",
        "callACLid":3,
        "callACLName":"Local",
        "callType":"internal",
        "channelId":"",
        "companyId":1,
        "confName":"",
        "department":"",
        "disturb":"No",
        "disturbId":0,
        "id":1,
        "job":"",
        "nativeDirection":"",
        "number":"3000",
        "position":0,
        "routeType":"user",
        "showName":"xxx",
        "startTime":"",
        "state":"IDLE",
        "stateDesc":"idle",
        "waitingPeriod":"",
        "userId":1
    },
    {
        "alarm":0,
        "alarmTime":"",
        "anotherChannel":"",

```



```

        "anotherNumber":"","
        "answerTime":"","
        "callACLId":1,
        "callACLName":"Inside the device",
        "callType":"internal",
        "channelId":"","
        "companyId":1,
        "confName":"","
        "department":"Software Department",
        "disturb":"No",
        "disturbId":0,
        "id":2,
        "job":"111",
        "nativeDirection":"","
        "number":"3001",
        "position":0,
        "routeType":"user",
        "showName":"xxx",
        "startTime":"","
        "state":"IDLE",
        "stateDesc":"idle",
        "waitingPeriod":"","
        "userId":2
    }
}
    ]
}

```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
aclList	Extension Permission List,where id: permission id; name: permission name; defaultPolicy: (temporarily useless) ; companyId: (temporarily useless)	String

extensionList	Extension Information List,where: alarm: Whether wake up is set (1:set; 0:unset) ; alarmTime: wake up time; anotherChannel: the other side channel during the call; anotherNumber: the other side number during the call; answerTime: response time; callACLId: extension calling permission id; callACLName: extension calling permission name; callType: call type (internal: internal line) ; channelId: channel id; companyId: company id (temporarily useless) ; confName: Meeting Name; department: Department Name; disturb: DNN is set (yes, no) ; disturbId: DNN is set (1: yes; 0: no) ; id: Extension Id; job: position; nativeDirection: caller or called (0: caller; 1: called) ; number: extension number; position: sort (temporarily useless) ; routeType: route type (temporarily useless) showName: extension display name; startTime: start time before the call; state: English keyword of the extension status; stateDesc: Chinese description of the extension status; waitingPeriod: Waiting time; userId: extension number id	String
---------------	---	--------

### 6.3 Query Extension Dialing Permissions

**Request message content:**

```

{
  "service":"callAclNumber",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "operate":"query",
  "serialId":"1570522917000"
}
    
```

**Request parameters (case sensitive) :**

name	description	type	Is it necessary
------	-------------	------	-----------------

service	Interface name, fixed value: callAclNumber	String	YES
currentUserId	Id corresponding to extension number	String	YES
operate	Operation type, fixed value: query	String	YES
token	Token	String	YES
serialId	Random String ,generated while requesting,and cannot repeat	String	YES

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"callAclNumber",
  "operate":"query",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570522917000",
  "companyId":1,
  "aclMembers":[
    {
      "aclId":1,
      "numbers":"3001,3002"
    },
    {
      "aclId":3,
      "numbers":"3000,3003"
    },
    {
      "aclId":4,
      "numbers":"3004,3005"
    },
    {
      "aclId":5,
      "numbers":"3006,3007"
    }
  ],
  "acls":[
    {
      "id":1,
      "name":"Inside the device",
      "defaultPolicy":"deny"
    },
    {

```

```

        "id":3,
        "name":"Local",
        "defaultPolicy":"deny"
    },
    {
        "id":4,
        "name":"National Long Distance",
        "defaultPolicy":"deny"
    },
    {
        "id":5,
        "name":"International Long Distance",
        "defaultPolicy":"deny"
    }
],
"numbers":[
    "3000",
    "3001",
    "3002",
    "3003",
    "3004",
    "3005",
    "3006",
    "3007"
]
}
    
```

**Response parameters:**

name	description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
aclMembers	Permission of each extension number,where: aclId: extension permission id; numbers: extension number	
acls	Extension permission list, where id: permission id;	String

	name: name of permission; defaultPolicy: (temporarily useless)	
numbers	All extension numbers	String

## 6.4 Setting Extension Dialing Permission

### Request message content:

```
{
  "service":"callAcNumber",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "operate":"update",
  "id":"3",
  "numbers":"3000,3001",
  "serialId":"1570523993000"
}
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: callAcNumber	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: update	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
id	Extension dialing permission id	String	Yes
numbers	Extension number, separated by commas in English	String	Yes

### Response message content:

```
{
  "code":0,
  "message":"Success",
  "service":"callAcNumber",
  "operate":"update",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570523993000",
  "companyId":1
}
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String

## 6.5 Query Extension Name

**Request message content:**

```
{
  "service":"setName",
  "currentUserId":"1",
  "operate":"init",
  "number":"3004",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570524955000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: setName	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: init	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Extension number	String	Yes

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"setName",
  "operate":"init",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
}
```

```

        "serialId":"1570524955000",
        "companyId":1,
        "name":"xueyaohua1",
        "number":"3004"
    }
    
```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message Content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
name	Name	String
number	Extension Number	String

## 6.6 Setting the extension Name

**Request message content:**

```

    {
        "service":"setName",
        "currentUserId":"1",
        "token":"5d30ea91a8cb4586edd1142cecb11213",
        "name":"xueyaohua1",
        "operate":"update",
        "number":"3004",
        "serialId":"1570525145000"
    }
    
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: setName	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: update	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting , and can not repeat	String	Yes
name	Name	String	Yes

number	Extension number	String	Yes
--------	------------------	--------	-----

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"setName",
  "operate":"update",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570525145000",
  "companyId":1
}
```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Ramdom string:Return the value at the time of request	String
companyId	Company Id	String

## 6.7 Query Extension Group

**Request message content:**

```
{
  "service":"userRole",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "operate":"query",
  "name":"de",
  "page":1,
  "pageSize":10,
  "serialId":"1569742818000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
------	-------------	------	-----------------



service	Interface name, fixed value: userRole	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
name	Group Name	String	No
page	Current page number	String	No
pageSize	Number of records per page	String	No

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"userRole",
  "operate":"query",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569742818000",
  "companyId":1,
  "aclList":[
    {
      "id":1,
      "name":"Inside the device",
      "defaultPolicy":"deny"
    },
    {
      "id":3,
      "name":"Local",
      "defaultPolicy":"deny"
    },
    {
      "id":4,
      "name":"National Long Distance",
      "defaultPolicy":"deny"
    },
    {
      "id":5,
      "name":"International Long Distance",
      "defaultPolicy":"deny"
    }
  ]
},
    
```

```

        "userRoles":[
            {
                "id":"2",
                "name":"Default",
                "callACC":"Inside the device",
                "callAclId":"1",
                "allowInternal":"1",
                "allowInBound":"1",
                "inBound":"YES",
                "internal":"YES"
            }
        ],
        "totalCount":"1"
    }

```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
aclList	Extension permission list, where id: permission id; name: name of permission; defaultPolicy: temporarily useless	String
userRoles	Extension grouping information,where id: Extension group id; name: Name of Extension Group; callACC: Extension name of permission; callAclId: Extensionpermission id; allowInternal: Allow number dialing each other in the group, 1 : Allow; 0 : Not allowed allowInBound: Allow outside line numbers to call in, 1 : Allow; 0 : Not allowed inBound: The value of "allowInBound" corresponds to the Chinese description; internal: The value of "allowInternal" corresponds to the Chinese description;	String

totalCount	Total	String
------------	-------	--------

## 6.8 Add Extension Group

### Request message content:

```

{
  "service":"userRole",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "operate":"add",
  "name":"test",
  "callACLId":"1",
  "allowInBound":1,
  "allowInternal":1,
  "serialId":"1569745543000"
}
    
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: userRole	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: add	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
name	Group Name	String	Yes
callACLId	permission id	String	Yes
allowInBound	Allow outside line numbers to call in, 1 : Allow; 0 : Not allowed	String	Yes
allowInternal	Allow number dialing each other in the group, 1 : Allow; 0 : Not allowed	String	Yes

### Response message content:

```

{
  "code":0,
  "message":"Success",
  "service":"userRole",
  "operate":"add",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569745543000",
}
    
```

```

        "companyId":1
    }

```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String

## 6.9 Edit Extension Grouping

**Request message content:**

```

{
    "service":"userRole",
    "currentUserId":"1",
    "token":"fec813f6ddab929a086c35919a5f2bba",
    "operate":"update",
    "id":"7",
    "name":"test",
    "callACLId":"1",
    "allowInBound":1,
    "allowInternal":1,
    "serialId":"1569746218000"
}

```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: userRole	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: update	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
id	Group id	String	Yes
name	Group Name	String	Yes
callACLId	permission id	String	Yes

allowInBound	Allow outside line numbers to call in. 1: Allowed; 0: Not Allowed	String	Yes
allowInternal	Allow extensions within the group to dial each other. 1: Allowed; 0: Not Allowed	String	Yes

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"userRole",
  "operate":"update",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569746218000",
  "companyId":1
}
```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Ramdom string:Return the value at the time of request	String
companyId	Company Id	String

## 6.10 Delete Extension Group

**Request message content:**

```
{
  "service":"userRole",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "operate":"delete",
  "id":"7",
  "serialId":"1569746588000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it
------	-------------	------	-------

			necessary
service	Interface name, fixed value: userRole	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: delete	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
id	Group id	String	Yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"userRole",
  "operate":"delete",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569746588000",
  "companyId":1
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string: Return the value at the time of request	String
companyId	Company Id	String

## 6.11 Query Extension Group Members

**Request message content:**

```

{
  "service":"userRoleNumber",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "operate":"query",
  "serialId":"1569747901000"
}
    
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: userRoleNumber	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"userRoleNumber",
  "operate":"query",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569747901000",
  "companyId":1,
  "numbers":[
    "3000",
    "3001",
    "3002",
    "3003"
  ],
  "roleMembers":[
    {
      "roleId":"2",
      "numbers":"3000,3001"
    },
    {
      "roleId":"6",
      "numbers":"3002,3003"
    }
  ],
  "roles":[
    {
      "allowInBound":"1",
      "allowInternal":"1",
      "callAcId":"1",

```

```

        "id": "2",
        "name": "Default",
        "companyId": 1
    },
    {
        "allowInBound": "0",
        "allowInternal": "1",
        "callAcId": "1",
        "id": "6",
        "name": "Test1",
        "companyId": 1
    }
]
}

```

#### Response parameters:

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string: Return the value at the time of request	String
companyId	Company Id	String
numbers	All extension numbers	String
roleMembers	Group and its member information, where roleId: extension group id; numbers: all numbers belong to this extension	String
roles	Group information, where allowInBound: Allow outside line numbers to call in allowInternal: Allow number dialing each other in the group callAcId: permission id; id: extension group id; name: extension group name; companyId: Company Id	String

## 6.12 Setting Extension Group Members

#### Request message content:

```

{
    "service": "userRoleNumber",

```



```

        "currentUserId":"1",
        "token":"fec813f6ddab929a086c35919a5f2bba",
        "operate":"update",
        "id":"2",
        "keepRole":1,
        "numbers":"3000,3001",
        "serialId":"1569748958000"
    }
    
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: userRoleNumber	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: update	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
id	Extension Group id	String	Yes
keepRole	Whether to retain the original call rights of the extension, if not, set the extension call permission to the group call permission: 1: Reserved; 0: Not Reserved	String	Yes
numbers	The extension number belonging to the current extension group	String	Yes

**Response message content:**

```

{
    "code":0,
    "message":"Success",
    "service":"userRoleNumber",
    "operate":"update",
    "currentUserId":"1",
    "token":"fec813f6ddab929a086c35919a5f2bba",
    "serialId":"1569748958000",
    "companyId":1
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String

service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Ramdom string:Return the value at the time of request	String
companyId	Company Id	String

### 6.13 Query Extension Group Dialing Permission

**Request message content:**

```
{
  "service":"userRoleRelation",
  "currentUserId":"1",
  "token":"ae11778ceaf167aafc520af14cf0a682",
  "operate":"query",
  "serialId":"1569805387000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: userRoleRelation	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"userRoleRelation",
  "operate":"query",
  "currentUserId":"1",
  "token":"ae11778ceaf167aafc520af14cf0a682",
  "serialId":"1569805387000",
  "companyId":1,
  "roles":[
    {
      "allowInBound":"1",
      "allowInternal":"1",
    }
  ]
}
```

```

        "callAcId":"1",
        "id":"2",
        "name":"Default",
        "companyId":1
    },
    {
        "allowInBound":"0",
        "allowInternal":"1",
        "callAcId":"1",
        "id":"6",
        "name":"Test1",
        "companyId":1
    }
]
}

```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
roles	Group information, where allowInBound: Allow outside line numbers to call in allowInternal : Allow number dialing each other in the Group callAcId: Permission id; id: Extension group id; name: Extension group name; companyId: Company Id; relation: Whether it is an associated group. When the field is returned, it indicates the associated group. If the field is not returned, it indicates the non-associated group.	String

### 6.14 Setting Extension Group Dialing Permissions

The extension group that enters the "Associated Packet" (as shown below) can dial each other. If you do not enter, you cannot dial other

extensions.



**Request message content:**

```
{
  "service":"userRoleRelation",
  "currentUserId":"1",
  "token":"ae11778ceaf167aafc520af14cf0a682",
  "operate":"update",
  "relations":"2,6,",
  "serialId":"1569813713000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: userRoleRelation	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: update	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
relations	Set to the associated group id, when the value is	String	Yes

	empty string, it means that no associated group is set.		
--	---	--	--

**Response Message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"userRoleRelation",
  "operate":"update",
  "currentUserId":"1",
  "token":"ae11778ceaf167aafc520af14cf0a682",
  "serialId":"1569813713000",
  "companyId":1
}
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String

## 6.15 Hidden Extension

After setting the extension to hide, the hidden extensions can be not displayed in the control panel extension list.

**Request message content:**

```
{
  "service":"hideExtension",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "operate":"update",
  "id":"0",
  "numbers":"5000,5001,",
  "serialId":"1569741168000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: hideExtension	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: update	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
id	0:set object to all groups: One of group id:set object to a group	String	Yes
numbers	Set a hidden extension number	String	Yes

**Response Message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"hideExtension",
  "operate":"update",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569741168000",
  "companyId":1,
  "hideNumbers":{
  },
  "numbers":{
  },
  "roleMembers":{
  },
  "roles":{
  }
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String

serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
numbers	Empty list, temporarily useless	String
hideNumbers	Empty list, temporarily useless	String
roles	Empty list, temporarily useless	String
roleMembers	Empty list, temporarily useless	String

## 6.16 Query Hidden Extension

### Request message content:

```
{
  "service":"hideExtension",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "operate":"query",
  "serialId":"1569740364000"
}
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: hideExtension	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes

### Response message content:

```
{
  "code":0,
  "message":"Success",
  "service":"hideExtension",
  "operate":"query",
  "currentUserId":"1",
  "token":"fec813f6ddab929a086c35919a5f2bba",
  "serialId":"1569740364000",
  "companyId":1,
  "numbers":[
    "3000",
    "3001",
    "3002"
  ]
}
```

```
],
  "hideNumbers":{
  },
  "roles":[
    {
      "allowInBound":"1",
      "allowInternal":"1",
      "callAcId":"1",
      "id":"2",
      "name":"Default",
      "companyId":1
    },
    {
      "allowInBound":"0",
      "allowInternal":"1",
      "callAcId":"1",
      "id":"6",
      "name":"Test1",
      "companyId":1
    }
  ],
  "roleMembers":[
    {
      "roleId":"2",
      "numbers":[
        "3000",
        "3001",
        "3002"
      ],
      "hideNumbers":{
      }
    },
    {
      "roleId":"6",
      "numbers":{
      },
      "hideNumbers":{
      }
    }
  ]
}
```



**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
numbers	All extension numbers	String
hideNumbers	All hidden extension numbers	String
roles	All extension group, where allowInBound: Allow outside line numbers to call in; allowInternal: Allow number dialing each other in the group; callAcId: Extension permission id; id: Extension group id; name: Extension group name; companyId: Company Id	String
roleMembers	Group member information, where roleId: Extension group id; numbers: Extensions that are not hidden by this group; hideNumbers: Extensions hidden by this group	String

## 7 Wake up

### 7.1 Query a single wake up setting

This interface is used to initialize the page when adding or editing the wake up setting of the extension. The number、locutionId and numberAlarms parameters only returned when the parameter number (extension number) is passed in .

**Request message content:**

```
{
  "service":"alarm",
  "currentUserId":"1",
  "operate":"init",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570515264000"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: alarm	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: init	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Extension number	String	No

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"alarm",
  "operate":"init",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570515264000",
  "companyId":1,
  "number":"",
  "locutionId":"",
  "numberAlarms":[

  ],
  "results":[

  ],
  "users":[

  ],
  "extensions":[
    {
      "id":"1",
      "companyId":1,
      "number":"3000",
      "routeType":"user",
      "userId":"1"
    },
    {
      "id":"2",

```

```

        "companyId":1,
        "number":"3001",
        "routeType":"user",
        "userId":"2"
    },
    {
        "id":"3",
        "companyId":1,
        "number":"3002",
        "routeType":"user",
        "userId":"3"
    }
],
"locutions":[
    {
        "id":"1",
        "name":"fpm-world-mix",
        "originalFileName":"fpm-world-mix.gsm",
        "companyId":1
    },
    {
        "id":"2",
        "name":"phone-is-busy",
        "originalFileName":"phone-is-busy.gsm",
        "companyId":1
    },
    {
        "id":"15",
        "name":"phone-is-noanswer",
        "originalFileName":"phone-is-noanswer.gsm",
        "companyId":1
    }
],
"userRoles":[
    {
        "allowInBound":"1",
        "allowInternal":"1",
        "callAcId":"1",
        "id":"2",
        "name":"Default",
        "companyId":1,
        "relation":1
    }
]

```

```

    },
    {
        "allowInBound":"0",
        "allowInternal":"1",
        "callAcId":"1",
        "id":"6",
        "name":"Test1",
        "companyId":1,
        "relation":1
    },
    {
        "allowInBound":"1",
        "allowInternal":"1",
        "callAcId":"1",
        "id":"8",
        "name":"test",
        "companyId":1
    }
}
]
}

```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
number	Extension number ( Return this parameter when request contains number parameter )	String
locutionId	Wake up tone id ( Return this parameter when request contains number parameter )	String
numberAlarms	a list of parameters such as wake up specific time, wake up period, number of wake up times, and number of wake up days ( Return this parameter when request contains number parameter ) , where: alarmCycle: wake up period ( minutes ) ; alarmDays: wake up days; alarmTime: wake up time (format: 7:00 );	String

	alarmTimes: the number of wakeups; calledDays: (temporarily useless) ; calledFinishedToday: (temporarily useless) ; calledTimes: (temporarily useless) ; id: wake up setting id; companyId: (temporarily useless) ; enabled: (temporarily useless) ; number: Extension number; userId: Id corresponding to extension number; startTime: wake up start time (format: 7:00) ;	
results	(temporarily useless)	String
users	(temporarily useless)	String
extensions	A list of extension numbers, where: id: Id corresponding to extension number; companyId: (temporarily useless) ; number: Extension number; routeType: (temporarily useless) ; userId: Id corresponding to extension number;	String
locutions	Prompt list information, where: id: wake up tone id; name: wake up tone filename (without suffix) originalFileName: wake up tone filename (with suffix) companyId: Company Id	String
userRoles	Group list informataion, where: allowInBound: Allow outside line numbers to call in; allowInternal : Allow number dialing each other in the Group; callAcId: call permission id; id: Group id; name: Group Name; companyId: Company Id; relation: Whether it is a Associated Group	String

## 7.2 Set Wake Up

- 1) number: When the parameter is passed in, set a single extension number to wake up;
- 2) startNumber 、 endNumber : When these two parameters are passed in, the batch extension number is set to wake up;
- 3) roleId: Set the wake up with the extemptions in group.

**Request message content:**

```
{
```

```

"service":"alarm",
"currentUserId":"1",
"token":"5d30ea91a8cb4586edd1142cecb11213",
"operate":"add",
"locutionId":"1",
"number":"3000",
"startNumber":"",
"endNumber":"",
"roleId":"",
"alarms":[
  {
    "id":"",
    "alarmTime":"05:30",
    "alarmCycle":"3",
    "alarmTimes":"3",
    "alarmDays":"1"
  },
  {
    "id":"",
    "alarmTime":"06:30",
    "alarmCycle":"3",
    "alarmTimes":"3",
    "alarmDays":"1"
  }
],
"serialId":"1570517803000"
}
    
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: alarm	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: add	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
locutionId	prompt tone file id	String	Yes
number	Extension number	String	No
startNumber	Set extensions in batches, start number	String	No
endNumber	Set extensions in batches, end number	String	No
roleId	Extension Group id	String	No

alarms	Setting of wake up time 、 period and days , where: id: no need to set; alarmTime: wake up time; alarmCycle: wake up period; alarmTimes: wake up times; alarmDays: wake up day	String	Yes
--------	---	--------	-----

**Response message content:**

```
{
  "code":0,
  "message":"Success",
  "service":"alarm",
  "operate":"add",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570517803000",
  "companyId":1
}
```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Ramdom string:Return the value at the time of request	String
companyId	Company Id	String

### 7.3 Delete Setting Of Wake Up

- 1) number: When the parameter is passed in, delete the single extension number wake up setting;
- 2) startNumber、endNumber: When these two parameters are passed, the batch extension number wakeup setting is deleted;
- 3) roleId: Delete the wakeup settings of extension which in the group.

**Request message content:**

```
{
  "service":"alarm",
```

```

        "currentUserId":"1",
        "token":"5d30ea91a8cb4586edd1142cecb11213",
        "operate":"delete",
        "number":"3000",
        "startNumber":"",
        "endNumber":"",
        "roleId":"",
        "serialId":"1570518465000"
    }

```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: alarm	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: delete	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Extension number	String	No
startNumber	Set extensions in batches, start number	String	No
endNumber	Set extensions in batches, end number	String	No
roleId	Extension Group id	String	No

**Response message content:**

```

{
    "code":0,
    "message":"Success",
    "service":"alarm",
    "operate":"delete",
    "currentUserId":"1",
    "token":"5d30ea91a8cb4586edd1142cecb11213",
    "serialId":"1570518465000",
    "companyId":1
}

```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String



operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Ramdom string:Return the value at the time of request	String
companyId	Company Id	String

## 7.4 Query Setting Of Wake Up

1) number: When the parameter is passed in, query the single extension number wake up setting;

2) startNumber、endNumber: When these two parameters are passed in, query the batch extension number wake up setting;

3) roleId: Query the wakeup setting of extensions which in the group.

### Request message content:

```
{
  "service":"alarm",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "operate":"query",
  "number":"3000",
  "startNumber":"",
  "endNumber":"",
  "roleId":"",
  "status":"0",
  "page":1,
  "pageSize":"10",
  "serialId":"1570519365000"
}
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: alarm	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Extension number	String	No
startNumber	Set extensions in batches, start number	String	No
endNumber	Set extensions in batches, end number	String	No

roleId	Extension group id	String	No
status	status (0: All; 1: Wake up is set; 2: Wake up is not set)	String	Yes
page	Current page number	String	No
pageSize	Number of records per page	String	No

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"alarm",
  "operate":"query",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570519914000",
  "companyId":1,
  "isExport":0,
  "page":1,
  "pageSize":10,
  "totalCount":"1",
  "alarms":[
    {
      "number":"3000",
      "roleName":"Default",
      "status":"enable"
    }
  ]
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
isExport	Whether to export ( 1 : yes; 0 : no)	String
page	Current page number	String

pageSize	Number of records per page	String
totalCount	total	String
alarms	Extension number、 group ,where: number: Extension number; roleName: Group Name; status: whether wake up has been set (set, not set)	String

## 7.5 Query Wake Up Result

1) number: When the parameter is passed in, query the wake up result of the single extension number;

2) startNumber、 endNumber: When these two parameters are passed in, query the wake up results of batch extension number;

3) roleId: Query wake-up result the extension which in the group.

### Request message content:

```
{
  "service":"alarm",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "operate":"result_query",
  "number":"3000",
  "startNumber":"",
  "endNumber":"",
  "roleId":"",
  "result":"0",
  "startDate":"",
  "endDate":"",
  "page":1,
  "pageSize":"10",
  "serialId":"1570521256000"
}
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: alarm	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: result_query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes

number	Extension number	String	No
startNumber	Set extensions in batches, start number	String	No
endNumber	Set extensions in batches, end number	String	No
roleId	Extension Group id	String	No
result	Wake up results ( 1 : wake up success; 2 : wake up failure; other values: all)	String	No
startDate	Wake up start time	String	No
endDate	Wake up end time	String	No
page	Current page number	String	No
pageSize	Number of records per page	String	No

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"alarm",
  "operate":"result_query",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570521256000",
  "companyId":1,
  "isExport":0,
  "page":1,
  "pageSize":10,
  "totalCount":"1",
  "results":[
    {
      "id":"1",
      "number":"3000",
      "roleName":"Default",
      "alarmTime":"2019-10-08 15:41:31",
      "result":"Wake up failure"
    }
  ],
  "number":"",
  "numberAlarms":[
  ]
}
    
```

**Response parameters:**

Name	Description	Type
------	-------------	------

code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Ramdom string:Return the value at the time of request	String
companyId	Company Id	String
isExport	Whether to export ( 1 : yes; 0 : no)	String
page	Current page number	String
pageSize	Number of records per page	String
totalCount	total	String
results	Extension number 、 Group 、 Wake up time and wake up result etc,where: id: Wake up result record id; number: Extension number; roleName: Group Name; alarmTime: Wake up time; result: Wake up result	String
number	( temporarily useless )	String
numberAlarms	( temporarily useless )	String

## 8 Do Not Disturb

### 8.1 Setting the Extension DND

- 1) number: When passing this parameter, set a single extension number to DND;
- 2) startNumber、endNumber: When these two parameters are passed, set the batch extension number to DND;
- 3) roleId: Set DND of extension which in the group。

Note: If you do not set the DND time, the system is automatically set to 10 years.

#### Request message content:

```
{
  "service":"doNotDisturb",
  "currentUserId":"1",
  "token":"5e4aea080a255812dbe7116f9b9406bd",
  "operate":"add",
  "number":"3000",
  "startNumber":"",
  "endNumber":""
}
```

```

        "roleId":"","
        "startTime":"2019-10-09 12:00:00",
        "endTime":"2019-10-09 23:00:00",
        "serialId":"1570585253000"
    }
    
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: doNotDisturb	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: add	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Extension number	String	No
startNumber	Set extensions in batches, start number	String	No
endNumber	Set extensions in batches, end number	String	No
roleId	Extension group id	String	No
startTime	DND begin time, format: 2019-10-09 12:00:00	String	No
endTime	DND end time, format: 2019-10-09 23:00:00	String	No

**Response message content:**

```

{
    "code":0,
    "message":"Success",
    "service":"doNotDisturb",
    "operate":"add",
    "currentUserId":"1",
    "token":"5e4aea080a255812dbe7116f9b9406bd",
    "serialId":"1570585253000",
    "companyId":1
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String

token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String

## 8.2 Delete Extension DND

- 1) number: When the parameter is passed in, delete a single extension number to A;
- 2) startNumber、endNumber: When these two parameters are passed, the batch extension number is deleted without DND;
- 3) roleId: Delete the DND of extension which in group

### Request message content:

```

{
  "service":"doNotDisturb",
  "currentUserId":"1",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4",
  "operate":"delete",
  "number":"3000",
  "startNumber":"","
  "endNumber":"","
  "roleId":"","
  "startTime":"","
  "endTime":"","
  "serialId":"1570676171000"
}
    
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: doNotDisturb	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: delete	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting , and can not repeat	String	Yes
number	Extension number	String	No
startNumber	Batch delete extensions DND, start number	String	No
endNumber	Batch delete extensions DND, end number	String	No
roleId	Extension group id	String	No

### Response message content:

```
{
```

```

        "code":0,
        "message":"Success",
        "service":"doNotDisturb",
        "operate":"delete",
        "currentUserId":"1",
        "token":"21c987cdf9308462e1435cdaa9d0f7c4",
        "serialId":"1570676171000",
        "companyId":1
    }

```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String

### 8.3 Query extension DND

- 1) number: When passing in this parameter, query a single extension number to DND;
- 2) startNumber、endNumber: When passing in these two parameters, query the batch extension number to DND;
- 3) roleId: Query the DND of extension which in the group.

**Request message content:**

```

{
    "service":"doNotDisturb",
    "currentUserId":"1",
    "token":"5e4aea080a255812dbe7116f9b9406bd",
    "operate":"query",
    "number":"3000",
    "startNumber":"",
    "endNumber":"",
    "roleId":"",
    "status":"all",
    "isExport":0,
    "page":1,
    "pageSize":"10",

```



```

        "serialId":"1570586373000"
    }
    
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: doNotDisturb	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: query	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Extension number	String	No
startNumber	Set extensions in batches, start number	String	No
endNumber	Set extensions in batches, end number	String	No
roleId	Extension group id	String	No
status	Status ( on: Query the extension number with DND-enable ;off: Query the extension number with DND-disable; all or other values: Query all )	String	No
isExport	Whether to export ( 1 : yes; 0 : no)	String	No
page	Current page number	String	No
pageSize	Number of records per page	String	No

**Response message content:**

```

{
    "code":0,
    "message":"Success",
    "service":"doNotDisturb",
    "operate":"query",
    "currentUserId":"1",
    "token":"5e4aea080a255812dbe7116f9b9406bd",
    "serialId":"1570586373000",
    "companyId":1,
    "page":1,
    "pageSize":10,
    "isExport":0,
    "totalCount":"1",
    "doNotDisturbs":[
        {
            "date":"2019-10-09-09:59:28~2029-10-06-09:59:28",
        }
    ]
}
    
```

```

        "number":"3000",
        "roleName":"Default",
        "status":"enable"
    }
}
]
}

```

**Response parameters:**

Name	Description	Type
code	Error Code ( 0:success, else:failure )	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string:Return the value at the time of request	String
companyId	Company Id	String
isExport	Whether to export ( 1 : yes; 0 : no)	String
page	Current page number	String
pageSize	Number of records per page	String
totalCount	total	String
doNotDisturbs	DND setting list, where: date: the area of the DND time; number: Extension number; roleName: Group Name; status: status (enable, disable)	String

## 9 Night service

**Request message content:**

```

{
    "service":"nightService",
    "currentUserId":"1",
    "token":"5e4aea080a255812dbe7116f9b9406bd",
    "operate":"update",
    "type":"extension",
    "extensionId":"1",
    "routeQueueId":"",
    "queueId":"queue1",
    "serialId":"1570589088000"
}

```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: nightService	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: update	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
queueId	Queue id	String	Yes
type	Route Type (extension: Extension; queue: Queue)	String	Yes
extensionId	Extension number id	String	No
routeQueueId	Route Queue id	String	No

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"nightService",
  "operate":"update",
  "currentUserId":"1",
  "token":"5e4aea080a255812dbe7116f9b9406bd",
  "serialId":"1570589088000",
  "companyId":1
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
currentUserId	The id corresponding to the current extension	String
token	Token	String
serialId	Random string: Return the value at the time of request	String
companyId	Company Id	String

## 10 Voice Conference

### 10.1 Add Conference Member

**Request message content:**

```

{
  "currentUserId":"1",
  "service":"conference",
  "operate":"conferenceAdd",
  "targetNumber":"3000",
  "number":"3000",
  "serialId":"1570688151000",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4"
}
    
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: conference	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: conferenceAdd	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Extension number	String	Yes
targetNumber	Extension number, same as the value of number	String	Yes

**Response message content:**

```

{
  "code":0,
  "message":"",
  "serialId":"1570688151000",
  "service":"conference",
  "operate":"conferenceAdd"
}
    
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
serialId	Random string: Return the value at the time of request	String

## 10.2 Remove Conference Member

### Request message content:

```
{
  "currentUserId":"1",
  "service":"conference",
  "operate":"conferenceKick",
  "targetChannel":"SIP/3000-00000003",
  "number":"3000",
  "serialId":"1570689613000",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4"
}
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: conference	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: conferenceKick	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Number	String	Yes
targetChannel	Channel	String	Yes

### Response message content:

```
{
  "code":0,
  "message": "",
  "serialId":"1570689613000",
  "service":"conference",
  "operate":"conferenceKick"
}
```

### Response parameters:

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String

serialId	Random string:Return the value at the time of request	String
----------	---	--------

### 10.3 Prohibiting Members Of The Conference From Speaking

**Request message content:**

```
{
  "currentUserId":"1",
  "service":"conference",
  "operate":"conferenceMute",
  "targetChannel":"SIP/3000-00000003",
  "number":"3000",
  "serialId":"1570688659000",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4"
}
```

**Request parameters (case sensitive):**

Name	Description	Type	Is it necessary
service	Interface name, fixed value: conference	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: conferenceMute	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Number	String	Yes
targetChannel	Channel	String	Yes

**Response message content:**

```
{
  "code":0,
  "message": "",
  "serialId":"1570688659000",
  "service":"conference",
  "operate":"conferenceMute"
}
```

**Response parameters:**

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String
service	Interface name: Return the value at the time of the request	String

operate	Operation type: Return the value at the time of the request	String
serialId	Ramdom string:Return the value at the time of request	String

## 10.4 Resume Members Of The Conference From Speaking

### Request message content:

```
{
  "currentUserId":"1",
  "service":"conference",
  "operate":"conferenceUnmute",
  "targetChannel":"SIP/3000-00000003",
  "number":"3000",
  "serialId":"1570689106000",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4"
}
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: conference	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: conferenceUnmute	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	Number	String	Yes
targetChannel	Channel	String	Yes

### Response message content:

```
{
  "code":0,
  "message": "",
  "serialId":"1570689106000",
  "service":"conference",
  "operate":"conferenceUnmute"
}
```

### Response parameters:

Name	Description	Type
code	Error Code (0:success, else:failure)	String
message	Message content	String

service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
serialId	Random string:Return the value at the time of request	String

## 10.5 End the Conference

### Request message content:

```
{
  "currentUserId":"1",
  "service":"conference",
  "operate":"conferenceEnd",
  "number":"3000",
  "serialId":"1570689768000",
  "token":"21c987cdf9308462e1435cdaa9d0f7c4"
}
```

### Request parameters (case sensitive):

Name	Description	Type	Is it necessary
service	Interface name, fixed value: conference	String	Yes
currentUserId	Id corresponding to extension number	String	Yes
operate	Operation type, fixed value: conferenceEnd	String	Yes
token	Token	String	Yes
serialId	Random string, be generated every time when requesting, and can not repeat	String	Yes
number	The extension number login form the console client	String	Yes

### Response message content:

```
{
  "code":0,
  "message": "",
  "serialId":"1570689768000",
  "service":"conference",
  "operate":"conferenceEnd"
}
```

### Response parameters:

Name	Description	Type
code	Error Code (0:success, else:failure)	String



message	Message content	String
service	Interface name: Return the value at the time of the request	String
operate	Operation type: Return the value at the time of the request	String
serialId	Ramdom string:Return the value at the time of request	String

## 11.Prompt tone

### 11.1 Rest interface to upload voice prompt tone

URL address: `https:// 192.168.*.*/ippbx/rest/locutions`

Method: POST

parameters:

parameters	Description	type	If necessary
originalFile	Prompt sound files, only 8kHz, 16bit, mono format wav, alaw, ulaw, GSM and mp3 files	File	yes

### 11.2 the Rest interface deletes the prompt sound file

URL address: `https:// 192.168.*.*/ippbx/rest/locutions`

Method: DELETE

parameters:

parameters	Description	type	If necessary
id	The prompt sound file corresponds to the id	File	yes

### 11.3 Query queue ringtone Settings

Request message content:

```
{
  "service":"locution",
  "currentUserId":"1",
  "operate":"set",
  "token":"fd29ac01b2a34ccd245da9e38dbb9007",
  "serialId":"1570498512000"
}
```

Request parameters (case sensitive) :

Name	Description	type	If necessary
service	Interface name, fixed value: locution	string	yes
currentUserId	Extension number corresponds to id	string	yes
operate	Operation type, fixed value: set	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"locution",
  "operate":"set",
  "currentUserId":"1",
  "token":"fd29ac01b2a34ccd245da9e38dbb9007",
  "serialId":"1570498512000",
  "companyId":1,
  "locutions":[
    {
      "id":"1",
      "name":"fpm-world-mix",
      "originalFileName":"fpm-world-mix.gsm",
      "companyId":1
    },
    {
      "id":"2",
      "name":"phone-is-busy",
      "originalFileName":"phone-is-busy.gsm",
      "companyId":1
    },
    {
      "id":"15",
      "name":"phone-is-noanswer",
      "originalFileName":"phone-is-noanswer.gsm",
      "companyId":1
    }
  ],
  "quques":[
    {
      "id":"leo_queue",

```

```

        "name":"leo_queue",
        "companyId":1,
        "nightServiceEnabled":"0",
        "nightServiceExtensionId":"0",
        "nightServiceLocutionId":"0",
        "nightServiceNumber":"",
        "nightServiceTargetType":"",
        "periodicAnnounceLocutionId":"0",
        "enableColorring":"1",
        "colorringFiles":[
            {
                "id":"3",
                "name":"pls-enter-the-telephone-hotline-then-prs-pound.gsm",
                "isColorringFile":"1"
            }
        ]
    },
    {
        "id":"queue1",
        "name":"queue1",
        "companyId":1,
        "nightServiceEnabled":"0",
        "nightServiceExtensionId":"0",
        "nightServiceLocutionId":"0",
        "nightServiceNumber":"",
        "nightServiceTargetType":"",
        "periodicAnnounceLocutionId":"0",
        "enableColorring":"1",
        "colorringFiles":[
            {
                "id":"4",
                "name":"111.gsm",
                "isColorringFile":"1"
            }
        ]
    }
]
}
}

```

**Response parameters:**

Name	Description	type
code	Error code (0 means success, others means failure)	string

message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string
locutions	Prompt sound file list information, temporarily unavailable	string
quques	Queue list information, where: id: The name of the queue; name: queue name; companyId: company id (Temporarily out of use) ; nightServiceEnabled: (Temporarily out of use) ; nightServiceExtensionId: (Temporarily out of use) ; nightServiceLocutionId: (Temporarily out of use) ; nightServiceNumber: (Temporarily out of use) ; nightServiceTargetType: (Temporarily out of use) ; periodicAnnounceLocutionId: (Temporarily out of use) ; enableColorring: Whether to enable the color ring tone (1: enable; 0: not enable) ; colorringFiles: Ringtone file list information, in which: id: Ringtone file id; name: ringtone file name; isColorringFile: Is it a ringtone file (1: yes; 0: no) 。	string

## 11.4 Query prompt tone

### Request message content:

```
{
  "service":"locution",
  "currentUserId":"1",
  "operate":"query",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570511393000"
}
```

### Request parameters (case sensitive) :

name	description	type	If necessary
------	-------------	------	--------------

service	Interface name, fixed value: locution	string	yes
currentUserId	Extension number corresponds to id	string	yes
operate	Operation type, fixed value: query	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"locution",
  "operate":"query",
  "currentUserId":"1",
  "token":"5d30ea91a8cb4586edd1142cecb11213",
  "serialId":"1570511393000",
  "companyId":1,
  "locutions":[
    {
      "id":"1",
      "name":"fpm-world-mix",
      "originalFileName":"fpm-world-mix.gsm",
      "companyId":1
    },
    {
      "id":"2",
      "name":"phone-is-busy",
      "originalFileName":"phone-is-busy.gsm",
      "companyId":1
    },
    {
      "id":"15",
      "name":"phone-is-noanswer",
      "originalFileName":"phone-is-noanswer.gsm",
      "companyId":1
    }
  ]
}
    
```

**Response parameters:**

name	Description	type
code	Error code (0 means success, others means failure)	string

message	The message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string
locutions	Prompt sound file list information, where: id: Prompt sound file id; name: Prompt file name (No suffix) ; originalFileName : Prompt file name (Contain the suffix) ; companyId: company id	string

### 11.5 Set up the queue color ring tone

Requested test content:

```
{
  "service": "locution",
  "operate": "update",
  "currentUserId": "4",
  "enableColroring": 1,
  "queueId": "leo_queue",
  "ringId": "3",
  "serialId": "1570502089000",
  "token": "6e81ec6b5d7e7d44c21bc8811d5d786e"
}
```

Request parameters (case-sensitive):

Name	Description	type	If necessary
service	Interface name, fixed value: locution	string	yes
currentUserId	Extension number corresponds to id	string	yes
operate	Operation type, fixed value: update	string	yes
token	Token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
enableColroring	Whether to enable color ring tone (1: enable; 0: not enable)	string	yes
queueId	Queue id	string	yes

ringId	Color ring tone file id	string	yes
--------	-------------------------	--------	-----

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"locution",
  "operate":"update",
  "currentUserId":"4",
  "token":"6e81ec6b5d7e7d44c21bc8811d5d786e",
  "serialId":"1570502089000",
  "companyId":1
}
    
```

**Response parameters:**

Name	description	type
code	Error code (0 means success, others means failure)	string
message	The message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	Token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string

## 11.6 Query queues, sounds, extension Numbers, voice mail, etc

**Request message content:**

```

{
  "service":"nightService",
  "currentUserId":"1",
  "operate":"init",
  "token":"5e4aea080a255812dbe7116f9b9406bd",
  "serialId":"1570587950000"
}
    
```

**Request parameters (case-sensitive):**

Name	description	type	If necessary
service	Interface name, fixed value: nightService	string	yes

currentUserId	The id corresponding to the extension number	string	yes
operate	Operation type, fixed value: init	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"nightService",
  "operate":"init",
  "currentUserId":"1",
  "token":"5e4aea080a255812dbe7116f9b9406bd",
  "serialId":"1570587950000",
  "companyId":1,
  "users":[
    {
      "id":"1",
      "name":"xyz/3000"
    }
  ],
  "queues":[
    {
      "id":"leo_queue",
      "name":"leo_queue"
    },
    {
      "id":"queue1",
      "name":"queue1"
    }
  ],
  "locutions":[
    {
      "id":"1",
      "name":"fpm-world-mix",
      "originalFileName":"fpm-world-mix.gsm",
      "companyId":1
    },
    {
      "id":"2",
      "name":"phone-is-busy",
    }
  ]
}

```



```

        "originalFileName":"phone-is-busy.gsm",
        "companyId":1
    }
],
"extensions":[
    {
        "id":"1",
        "companyId":1,
        "number":"3000",
        "routeType":"user",
        "userId":"1"
    },
    {
        "id":"2",
        "companyId":1,
        "number":"3001",
        "routeType":"user",
        "userId":"2"
    }
]
}

```

**Response message :**

name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	The id corresponding to the the current extension number	string
token	Token	string
serialId	Random string which returns the value when requested	string
companyId	Company id	string
users	Enabled voice mail extension user list, where: id: extension number id; name: name /extension number	
queues	Queue list,in which: id: queue name; ( The queue does not generate an id, whose value is the same as that of name ) name: queue name;	
locutions	Prompt sound file list, where:	

	id: prompt sound file id; name: prompt sound file name (No suffix) ; originalFileName: prompt sound file name (with suffix); companyId: company id (Temporarily out of use) 。	
extensions	Extension number list, where: id: extension number id; companyId:company id (Temporarily out of use) ; number: extension number; routeType: (Temporarily out of use) userId: extension number id。	

## 12 information push

### 12.1 Push the extension status information to the client of the soft console

Request message content:

```

{
  "code":0,
  "message":"Success",
  "service":"extensionSingle",
  "extension":{
    "alarm":0,
    "alarmTime":"",
    "anotherChannel":"",
    "anotherNumber":"3000",
    "answerTime":1570771901,
    "callACLId":1,
    "callACLName":"Inside the device",
    "callType":"internal",
    "channelId":"SIP/3001-00000026",
    "companyId":1,
    "confName":"",
    "department":"software department",
    "disturb":"no",
    "disturbId":0,
    "id":"2",
    "job":"111",
    "nativeDirection":"1",
    "number":"3001",
    "position":0,
    "routeType":"user",
    "showName":"zhaowei",
  }
}
    
```

```

        "startTime":1570771899,
        "state":"IDLE",
        "waitingPeriod":214,
        "userId":"2",
        "stateDesc":"free"
    }
}
    
```

**Request parameters (case sensitive) :**

Name	Description	Type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name, fixed value: extensionSingle	string
extension	Extension status information, where: alarm: whether has set alarm (1: set; 0: not set) ; alarmTime: alarm time; anotherChannel: The other side of the line; anotherNumber : The other number of the calling line; answerTime: answer time; callACLId: Extension call permission id; callACLName: Extension call permission name; callType: call type (internal: internal) ; channelId: channel id; companyId: company id (currently not available); confName: conference name; department: Department name; disturb: whether set no disturb or not (yes, no); disturbId: whether set no disturb or not (1: yes; 0: no) ; id: extension number id; job: position; nativeDirection: caller or callee (0: caller; 1: callee) ; number: extension number; position: Sort (temporarily unavailable); routeType: Route type (temporarily unavailable) showName: The displays name of the extension startTime: Call start time; state: Extension status English keyword;	string

	stateDesc: Extension status Chinese description; waitingPeriod: The waiting time; userId: extension number id	
--	---	--

## 12.2 Push outgoing, incoming, ringing and calling messages to the soft console client

### Request message content:

```

{
  "code":0,
  "message":"Success",
  "service":"callingQueue",
  "extensionList":[
    {
      "alarm":0,
      "alarmTime": "",
      "anotherChannel":"SIP/3000-00000029",
      "anotherNumber":"3000",
      "answerTime":1570772917,
      "callACLId":1,
      "callACLName":"inside the device",
      "callType":"internal",
      "channelId":"SIP/3001-0000002a",
      "companyId":1,
      "confName": "",
      "department":"software department",
      "disturb":"香",
      "disturbId":0,
      "id":"2",
      "job":"111",
      "nativeDirection":"1",
      "number":"3001",
      "position":0,
      "routeType":"user",
      "showName":"xxx",
      "startTime":1570772915,
      "state":"CALLING",
      "waitingPeriod":0,
      "userId":"2",
      "stateDesc":"通话中"
    }
  ]
}
    
```

}

**Request parameters (case-sensitive):**

name	description	type
code	Error code (0 means success, others means failure)	string
message	The message content	string
service	Interface name, fixed value: callingQueue	string
extensionList	Extension status information list, where: alarm: whether has set wake up (1: has set; 0: not set) ; alarmTime: alarm time; anotherChannel: The other side of the line; anotherNumber : The other party's number in the call; answerTime: answer time; callACLId: Extension call permission id; callACLName: Extension call permission name; callType: call type (internal: internal) ; channelId: channel id; companyId : company id ( Temporarily out of use) ; confName: conference name; department: department name; disturb: whether to set do not disturb (yes, no) ; disturbId: whether to set do not disturb (1: yes; 0: no) ; id: extension number id; job: position; nativeDirection: caller or called (0: caller; 1: called) ; number: extension number; position: Sort (temporarily unavailable); routeType: route type(temporarily unavailable) showName: extension display name startTime: call start time; state: extension status English key word; stateDesc: Extension status Chinese description; waitingPeriod: waiting time; userId: extension id	string

### 12.3 Push call queue information to soft console client

Request message content:

```
{
  "code":0,
  "message":"Success",
  "service":"callingInQueue",
  "extensionList":[
    {
      "alarm":0,
      "alarmTime": "",
      "anotherChannel": "",
      "anotherNumber": "",
      "answerTime": "",
      "callACLId":1,
      "callACLName":"inside the device",
      "callType":"internal",
      "channelId":"SIP/3001-0000002b",
      "companyId":1,
      "confName": "",
      "department":"software department",
      "disturb":"no",
      "disturbId":0,
      "id":"2",
      "job":"111",
      "nativeDirection":"0",
      "number":"3001",
      "position":"1",
      "routeType":"user",
      "showName":"xxx",
      "startTime":1570773203,
      "state":"CALLER_RINGING",
      "waitingPeriod":0,
      "userId":"2",
      "stateDesc":"呼入中"
    }
  ]
}
```

Request parameters (case sensitive) :

name	Description	type
code	Error code (0 means success, others means	string

	failure)	
message	The message content	string
service	Interface name, fixed value: callingInQueue	string
extensionList	Extension status information list, where: alarm: whether has set wake up (1: has set; 0: not set) ; alarmTime: alarm time; anotherChannel: The other side of the line; anotherNumber : The other party's number in the call; answerTime: answer time; callACLId: Extension call permission id; callACLName: Extension call permission name; callType: call type (internal: internal) ; channelId: channel id; companyId : company id (Temporarily out of use) ; confName: conference name; department: department name; disturb: whether to set do not disturb(yes, no); disturbId: whether to set do not disturb (1: yes; 0: no) ; id: extension number id; job: position; nativeDirection: caller or called (0: caller; 1: called) ; number: extension number; position: Sort (temporarily unavailable); routeType: route type(temporarily unavailable) showName: extension display name startTime: call start time; state: extension status English key word; stateDesc: Extension status Chinese description; waitingPeriod: waiting time; userId: extension id	string

#### 12.4 Push the meeting member information to the client of the reception desk

**Request message content:**

```
{
    "code":0,
    "message":"Success",
```

```

"service":"conference",
"operate":"conferenceQuery",
"conferenceName":"7000",
"members":[
  {
    "channel":"SIP/3000-0000002c",
    "conferenceId":1,
    "memberState":"JOINED",
    "number":"3000",
    "speakState":"UNMUTE",
    "username":"zhaowei",
    "joinTime":1570773377
  },
  {
    "channel":"SIP/3001-0000002d",
    "conferenceId":1,
    "memberState":"JOINED",
    "number":"3001",
    "speakState":"UNMUTE",
    "username":"zhaowei",
    "joinTime":1570773381
  }
]
}
    
```

**Request parameters (case-sensitive):**

name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name, fixed value: conference	string
operate	Fixed value: conferenceQuery	string
conferenceName	The meeting bridge number needs to be added on the server web administration page	string
members	List of meeting member information, in which: channel: channel; conferenceId: conference id; memberState: Online status (JOINED: on line; LEAVED: leave) ; number: number; speakState: speak state (UNMUTE: speak; MUTE: mute) ;	string



	username: Number corresponding name; joinTime: join time;	
--	--	--

### 13 Check call records

**Request message content:**

```

{
  "service": "callrecord",
  "currentUserId": "1",
  "token": "5e4aea080a255812dbe7116f9b9406bd",
  "operate": "query",
  "number": "3000",
  "startDate": "2019-09-01 00:00:00",
  "endDate": "2019-09-30 23:59:59",
  "type": "interna",
  "subtype": "entrante",
  "page": 1,
  "pageSize": "10",
  "serialId": "1570610934000"
}
    
```

**Request parameters (case sensitive) :**

Name	description	type	If necessary
service	Interface name, fixed value: callrecord	string	yes
currentUserId	Id corresponding to extension number	string	yes
operate	Operation type, fixed value: query	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
number	Extension number	string	no
startDate	Start date, date format: 2019-09-01 00:00:00	string	no
endDate	End date, date format: 2019-09-30 23:59:59	string	no
type	Call type (interna: internal; externa: external; all or other value: all)	string	no
subtype	Call type (entrante: call in; saliente: call out; all or other value: all )	string	no
isExport	To export or not (0: no; 1: yes)	string	no
page	Current page	string	no
pagSize	Number of records per page	string	no

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"callrecord",
  "operate":"query",
  "currentUserId":"1",
  "token":"5e4aea080a255812dbe7116f9b9406bd",
  "serialId":"1570611912000",
  "companyId":1,
  "isExport":0,
  "page":1,
  "pageSize":10,
  "recordList":[

  ],
  "totalCount":0
}
    
```

**Response parameters:**

name	description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	The corresponding id of the extension number	string
token	token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string
isExport	To export or not	string
page	The current page	string
pagSize	Number of records showing per page	string
totalCount	Total records	string
recordList	Call log list, where: id: The serial number; type: Call type (interna: internal; externa: external) ; subtype: call direction (entrante: call in; saliente: call out) ; callDate: call time caller: caller number;	string

	callee: called number; duration: call during	
--	---	--

## 14 Query the operation log

### Request message content:

```

{
  "service": "log",
  "currentUserId": "1",
  "operate": "query",
  "type": "all",
  "token": "5e4aea080a255812dbe7116f9b9406bd",
  "page": 1,
  "pageSize": 10,
  "serialId": "1570605207000"
}
    
```

### Request parameters (case-sensitive):

name	Description	type	If necessary
service	Interface name, fixed value: log	string	yes
currentUserId	Id corresponding to extension number	string	yes
operate	Operation type, fixed value: query	string	yes
token	token	string	yes
serialId	Random string, generated on each request, and cannot be repeated	string	yes
startDate	Start date	string	no
endDate	End date	string	no
type	Operation type: all: all alarmSet: alarm set; call: soft console operate; doNotDisturbSet: DND setting; editPassword: Edit password; locutionSet: voice prompt setting; login: log in; logout: log out; nameSet: name setting; nightSet: night service setting; queueColorringSet: queue ringtone setting; roleSet: extension dial permission setting	string	no

isExport	Whether to export (0: no; 1: yes)	string	no
page	Current page	string	no
pageSize	Number of records per page	string	no

**Response message content:**

```

{
  "code":0,
  "message":"Success",
  "service":"log",
  "operate":"query",
  "currentUserId":"1",
  "token":"5e4aea080a255812dbe7116f9b9406bd",
  "serialId":"1570605207000",
  "companyId":1,
  "isExport":0,
  "page":1,
  "pageSize":10,
  "logList":[
    {
      "id":"2087",
      "type":"night service setting",
      "targetName":"queue1/1000",
      "date":"2019-10-09 10:48:03",
      "companyId":1,
      "comment":"Set night service extension[Zhangsan/3000]",
      "userId":"1",
      "userName":"Zhangsan/3000"
    },
    {
      "id":"2080",
      "type":"call permission setting",
      "targetName":"zhangsan/3002",
      "date":"2019-10-08 16:50:09",
      "companyId":1,
      "comment":"set the extension[3002] call permission inside the device",
      "userId":"1",
      "userName":"zhangsan/3000"
    }
  ],
  "totalCount":"2"
}
    
```

**Response parameters:**

name	Description	type
code	Error code (0 means success, others means failure)	string
message	Message content	string
service	Interface name that returns the original value when requested	string
operate	Operation type that returns the original value when requested	string
currentUserId	Id corresponding to the current extension number	string
token	token	string
serialId	Random string that returns the original value of the request	string
companyId	Company id	string
isExport	To export or not	string
page	The current page number	string
pageSize	Number of records per page	string
totalCount	Total records	string
logList	Log list, in which : id: log record id; type: operation type; targetName: operation object; date: operation time companyId:companyId; comment: operate comment; userId: operate person id (extension number id) ; userName: name/extension number	string