



Yealink Meeting Server API

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1. Introduction

1.1 About This Guide

The YMS API allows third-party developers to use YMS services (such as creating conferences, looking up conference schedules, managing conferences/meeting rooms/users and so on), to integrate with their systems. The interface follows standard RESTful API, mainly uses GET, POST, PUT, DELETE methods and uses JSON encoded by UTF-8 as its format.

1.2 Intended Audience

This guide is intended for the users that are using YMS or going to use YMS and want to integrate YMS with their system. It assumes that readers are familiar with the concepts of REST and JSON.

1.3 The URL of Service Access

The URL of service access is <https://cloud.yealink.com>. When accessing the server interface or the device interface, you need to add the above URL before the request URL.

For example, when adding a meeting room:

Request URL: POST: /api/open/v1/room/add

The request method is POST and the request URL is /api/open/v1/server/add. The complete URL to access the server interface is <https://cloud.yealink.com/api/open/v1/room/add>. It is also applicable to access other interfaces.

Note: that /api/open/v1 is the prefix, all the request url in the following chapters will not repeat this prefix and the URL of the service access.

1.4 Summary of Changes

1.4.1 Changes for Release 25, Guide Version V25.0.0.5

The following section is new for this version:

[3.3.11 Smart Check-in](#)

Major updates have occurred to the following sections:

[3.1.2.7 Adding VMRs](#)

[3.1.2.9 Editing VMRs](#)

[3.1.2.10 Viewing the Details of VMRs](#)

[3.2.1.8 Adding User Accounts](#)

[3.2.1.10 Editing User Accounts](#)

[3.3.5.1 Obtaining the Layout Parameters](#)

[3.3.5.2 Editing the Layout Parameters](#)

[3.3.2.1 Obtaining the Conference Information](#)

[3.3.2.6 Obtaining the Layout Information](#)

[3.4.1 Adding Conferences](#)

[3.4.3 Editing Conferences](#)

1.4.2 Changes for Release 24, Guide Version V2.4.0.20

The following sections are new for this version:

[3.2.1.21 Obtaining the Authentication Codes of the User Accounts](#)

[3.2.6 Managing the Number Resource](#)

[3.3.3.20 Inviting a RTSP User to Join the Conference](#)

[3.3.3.21 Inviting a Batch of RTSP Users to Join the Conference](#)

[3.3.3.22 Sending DTMF Information](#)

[3.3.3.23 Obtaining the Participant List of Call History](#)

[3.3.3.24 Obtaining the Participant List of Absence](#)

[3.3.3.25 Obtaining the Participant List of Fast Call](#)

[3.4.9 Obtaining the Method to Join the conference](#)

Major updates have occurred to the following sections:

[3.1.2.7 Adding VMRs](#)

[3.1.2.8 Deleting VMRs](#)

[3.1.2.9 Editing VMRs](#)

[3.1.2.10 Viewing the Details of VMRs](#)

[3.1.2.11 Viewing VMRs by Paging](#)

[3.2.1.1 Adding Groups](#)

[3.2.1.8 Adding User Accounts](#)

[3.2.1.10 Editing User Accounts](#)

[3.2.1.16 Viewing the User ID by the User Account](#)

[3.2.2.1 Adding Room System Accounts](#)

[3.2.2.3 Editing Room System Accounts](#)

[3.3.2.1 Obtaining the Conference Information](#)

[3.3.2.3 Obtaining the Description Information](#)

[3.3.2.5 Obtaining the User Information](#)

[3.3.2.11 Subscribing to the Conference Information](#)

[3.3.3.1 Obtaining the Information of Users in the Conference](#)[3.3.5 Operations on the Layout](#)[3.3.8.1 Obtaining the Parameters of the Banner](#)[3.3.8.2 Editing the Parameters of the Banner](#)[3.3.8.3 Obtaining the Parameters of the Pre-Configured Banner](#)[3.3.8.4 Editing the Parameters of the Pre-Configured Banner](#)[3.3.8.5 Obtaining the Parameters of the Pre-Configured Subtitle](#)[3.3.8.6 Editing the Parameters of the Pre-Configured Subtitle](#)

2. Interface Standard

2.1 Signature Rule of REST API

2.1.1 Prerequisites

Before calling API, you need to obtain the AccessKey ID and the AccessKey Secret from Yealink Enterprise Management Platform. The AccessKey ID is used as an identity in the Header of REST API request and the AccessKey Secret is used to complete the signature.

2.1.2 System Header

The specified system Header should be carried in the HTTP Header:

- **【Required】 X-Ca-Key:** the AccessKey ID, which can be applied to the enterprise management platform. Log into YMS administrator interface, and go to **System Setting->Security->AccessKey**.
- **【Required】 X-Ca-Timestamp:** the timestamps, whose value is the milliseconds from January 1, 1970, to the current time, and the valid time of the timestamps is 5 minutes.
- **【Required】 X-Ca-Nonce:** UUID, together with the timestamps to avoid a replay.
- **【Required】 X-Ca-Signature:** the signature string.
- **【Optional】 Content-MD5:** the MD5 value of Body. For example: after the encryption, the string of *abc* becomes: *kAFQmDzST7DWlj99KOF/cg==*. The calculation method is as follows:

```
Base64.encodeBase64(MD5(body.getBytes("UTF-8"))); // Java
```

```
base64_encode(md5($body, true)) // PHP
```

```
str(base64.b64encode(hashlib.md5(body.encode("UTF-8")).digest()), "UTF-8") ## Python
```

2.1.3 The String Participated in the Signature

The String participated in the signature is as follows:

```
String stringToSign=
HTTPMethod + "\n" +    //Upper case, for example,POST, GET
Headers + "\n" +       //System Header
URI + "\n" +           //For example, http://yealink.sample.com/createRoom
Params                 //The list of the formatted form parameter in Body + Query
```

Parameter description:

HTTPMethod: it is in upper case, for example, POST and GET.

Headers: when calling the API, you can enter the system Header and sequences the keys according to the dictionary and then splice the keys by the following method:

```
HeaderKey1 + ":" + HeaderValue1 + "\n" +
HeaderKey2 + ":" + HeaderValue2 + "\n" +
...
HeaderKeyN + ":" + HeaderValueN
```

Note:

As a signature field after being calculated, X-Ca-Signature does not need the signature calculation.

When the optional Header is not empty, it participates in signature calculation, otherwise, it does not.

URI: the request path, its value is api/open/v1/room/category/add in <http://yealink.sample.com/api/open/v1/room/category/add>, for example.

Params: it is the formatted list of the HTTP Query parameter. The formatting method is as below: Sequence the **Query** according to the alphabetical order, sequence the **Key**, and then splice the key according to the following method (only keep the parameter name when the parameter value is null, and the "=" does not participate in signature):

```
Key1 + "=" + Value1 +
"&" + Key2 + "=" + Value2 +
...
"&" + KeyN + "=" + ValueN
```

2.1.4 Calculating the Signature

1. Splice the string to be signed.
2. Take the AccessKey Secret as the key (which is the secret in the following code) to generate the HMAC-SHA256 signature.
3. Use Base64 to encode the signature.

// Java

```
Mac hmacSha256 = Mac.getInstance("HmacSHA256");
hmacSha256.init(new SecretKeySpec(secret.getBytes("UTF-8"), "HmacSHA256"));
String result = new String(Base64.encodeBase64(hmacSha256.doFinal(stringToSign.getBytes("UTF-8")), "UTF-8"));
```

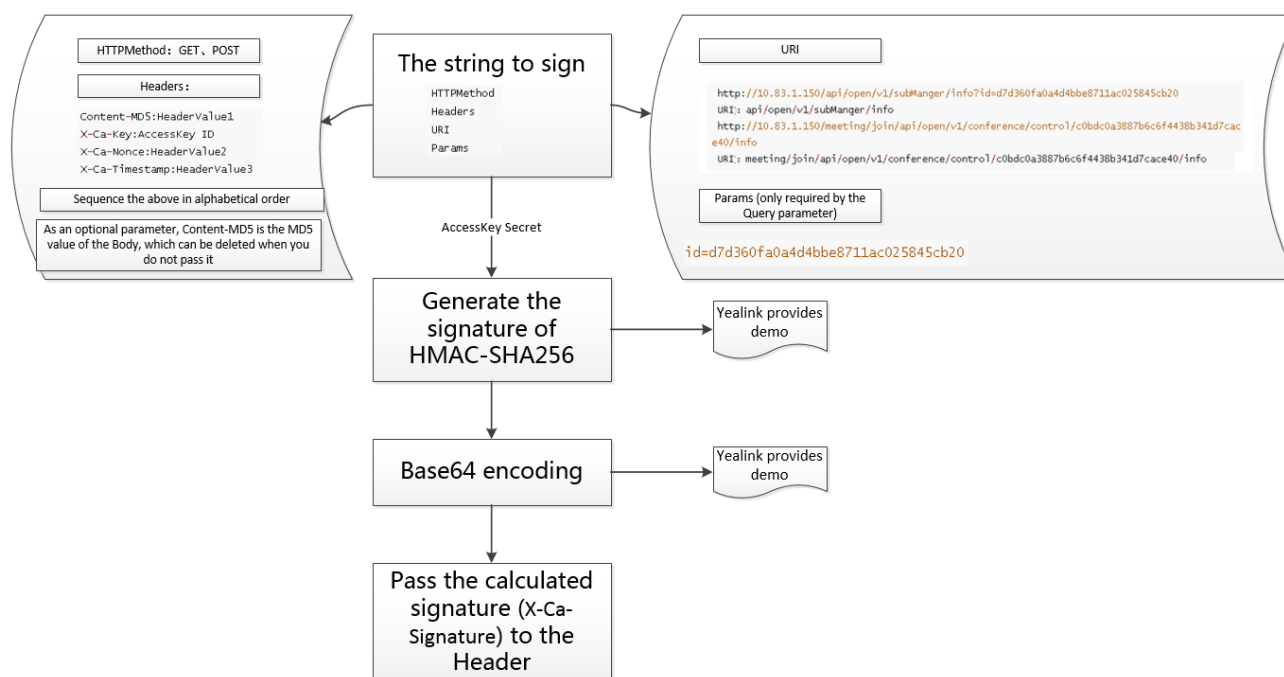
// PHP

```
$binarySignature = hash_hmac("sha256", $stringToSign, $secret, true);
$result = base64_encode($binarySignature);
```

Python

```
message = bytes(string_to_sign.encode("UTF-8"))
secret_bytes = bytes(secret.encode("UTF-8"))
result = str(base64.b64encode(hmac.new(secret_bytes, message, digestmod=hashlib.sha256).digest()), "UTF-8")
```

Progress of the Signature



2.1.5 Passing the Signature

Put the calculated signature (X-Ca-Signature) in the Header of Http Request.

2.1.6 Example Signature

In the example below, the AccessKey ID is `2ecb01abc9604faa8cde6a2a8becb702`, and the AccessKey Secret is `b56e76bcfb6040178f0d2dfb4668037b`.

2.1.6.1 GET Request

Request method: GET

Request URL: `/api/open/v1/room/category/info`

Query parameter: id=d0e903c9bf29468793a93da1d91679a4

The following system Header is required:

```
X-Ca-Key: 2ecb01abc9604faa8cde6a2a8becb702
X-Ca-Nonce: d48c009526f44950ba86fa97dd80b1f4
X-Ca-Timestamp: 1533194990618
X-Ca-Signature: GeKu42WPo42tg/yif6gBknqhqz3zNIWDilCytevu0SA=
```

The string to be signed is as follows:

```
GET
X-Ca-Key:2ecb01abc9604faa8cde6a2a8becb702
X-Ca-Nonce:d48c009526f44950ba86fa97dd80b1f4
X-Ca-Timestamp:1533194990618
api/open/v1/room/category/info
id=d0e903c9bf29468793a93da1d91679a4
```

2.1.6.2 POST Request

Request method: POST

Request URL: /api/open/v*/room/getPagedList

The following system Header is required:

```
Content-Md5: kybwzvShdndFspr7FXblig==
X-Ca-Key: 2ecb01abc9604faa8cde6a2a8becb702
X-Ca-Nonce: d48c009526f44950ba86fa97dd80b1f4
X-Ca-Timestamp: 1533194990618
X-Ca-Signature: h7YHx+wHeOFOCQ/DTbZy1OozEo/oOcSFm2Utx18T/O4=
```

Request body:

```
{"skip":0}
```

The string to be signed is as follows:

```
POST
Content-MD5:kybwzvShdndFspr7FXblig==
X-Ca-Key:2ecb01abc9604faa8cde6a2a8becb702
X-Ca-Nonce:d48c009526f44950ba86fa97dd80b1f4
X-Ca-Timestamp:1533194990618
api/open/v1/room/getPagedList
```

2.2 Returned Data Structure

The format of the returned data is JSON encoded by UTF-8. The returned data structure is as follows:

```

{
  "ret": 1,          //-1 means error, otherwise, it means correct
  "data": null,      //The returned data
  "errors": {
    "msg": "",       //The error message
    "errorCode": 400, //The error code
    "fieldErrors": [ //The detailed error message
      {
        "field": "", //The error field
        "msg": ""    //The error message
      }
    ]
  }
}

```

- ret: the result code. If the value is smaller than 0, it means an error response, otherwise, it means a successful response.
- data: the returned message after requesting. When requesting a single object, it is a JSON; when requesting a batch of objects, it is an array.
- errors: the returned error object.
- msg: the error message.
- errorCode: the error code.
- fieldErrors: the error message which records the error field and the detailed error message.

Example of Successful Response-Obtaining the User Information:

```

{
  "ret": 1,
  "data": {
    "id": "ddsadf389010faslfdsd",
    "name": "Kangkang",
    "age": 18
  }
  "errors": null
}

```

Example of Error Response:

```

{
  "ret": 1,
  "data": null,
  "errors": {
    "msg": "",
    "errorCode": 400,
    "fieldErrors": [
      {
        "field": "email",
        "msg": "email.invalid"
      }
    ]
  }
}

```

```
}
}
```

2.3 Errors

| Code | Description | Example |
|------|------------------------|--|
| 200 | SUCCESS | / |
| 400 | BAD_REQUEST | Illegal client email. |
| 401 | UNAUTHORIZED | Error user key. |
| 404 | NOT_FOUND | Try to modify a deleted object. |
| 405 | METHOD_NOT_ALLOWED | / |
| 406 | NOT_ACCEPTABLE | / |
| 409 | CONFLICT | Register the email repeatedly. |
| 415 | UNSUPPORTED_MEDIA_TYPE | / |
| 444 | PROTOCOL_NOT_MATCH | A lack of the required parameter in the interface. |
| 500 | INTERNAL_ERROR | / |
| 502 | GATEWAY_ERROR | / |
| 503 | SERVICE_UNAVAILABLE | / |
| 504 | GATEWAY_TIMEOUT | / |

3. API

3.1 Meeting Room Management

3.1.1 Entity Meeting Room

3.1.1.1 Adding Groups

Request URL:

- POST: /room/category/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| name | String | Yes | 2-128 | The name. |
| parentId | String | No | 32 | The ID of the upper group. It defaults to the ID of the root node if it is null or not requested. |

- **Example Request:**

```
{
  "name": "普通会议室3",
  "parentId": "572a8dac3f745a9abc80022fdec3d9f"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "7d39e07b126548209d667b95efbc5af7", //The primary key
    "parentId": "572a8dac3f745a9abc80022fdec3d9f", //The ID of the upper group
    "name": "普通会议室3", //The name
    "namePinyin": "putonghuiyishi3",
    "namePinyinAlia": "pthys3",
    "index": 1, //It is used for listing
    "type": "CATEGORY" //The node type, one of CATEGORY or ROOM
  },
  "error": null
}
```

3.1.1.2 Deleting Groups

Request URL:

- POST: /room/category/delete

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Note: you can delete only the group without any subordinate group.

- **Example Request:**


```
{
  "id": "7d39e07b126548209d667b95efbc5af7"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.1.1.3 Editing Groups

Request URL:

- POST: /room/category/edit

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|----------------------------|
| id | String | Yes | 32 | The primary key. |
| name | String | Yes | 2-128 | The name. |
| parentId | String | Yes | 32 | The ID of the upper group. |

- Example Request:

```
{
  "id": "7d39e07b126548209d667b95efbc5af7",
  "name": "研发中心",
  "parentId": "572a8dac3f745a9abc80022fdec3d9f"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "7d39e07b126548209d667b95efbc5af7", //The primary key
    "parentId": "572a8dac3f745a9abc80022fdec3d9f", //The ID of the upper group
    "name": "研发中心",
    "namePinyin": "yanfazhongxin",
    "namePinyinAlia": "yfxz",
    "index": 1, //It is used for listing
    "type": "CATEGORY" //The node type, one of CATEGORY or ROOM
  },
  "error": null
}
```

3.1.1.4 Viewing the Group Details

Request URL:

- GET: /room/category/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "parentId": "70bb76dbe0c04e1da20b5b9595730458", //The ID of the upper group
    "path": "70bb76dbe0c04e1da20b5b9595730458:14bf9c7e60844fe2818235e48801c4fe", //The organization path
    "index": 0, //It is used for listing
    "enterpriseId": "c4ca4204477a4c9c9c38be93e3751c85",
    "name": "linhh8231",
    "namePinyin": "linhh8231",
    "namePinyinAlia": "linhh8231",
    "id": "14bf9c7e60844fe2818235e48801c4fe" //The primary key
  },
  "error": null
}
```

3.1.1.5 Viewing the Group Tree (not Including the Meeting Room)

Request URL:

- GET: /room/category/tree

Request Parameter: None

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
    {
      "id": "fbcd6b092d0b41fc97d89a6bff61a7b8", //the primary key
      "parentId": null, //The ID of the upper group. It defaults to the ID of the root node if it is null
      "name": "yealink",
      "namePinyin": "yealink",
      "namePinyinAlia": "yealink",
      "index": 0, //It is used for listing
      "type": "CATEGORY" //The node type, one of CATEGORY or ROOM
    },
    {
      "id": "83ab2a2a5cb14ac9b776b2f1a52e3f0d",
      "parentId": "fbcd6b092d0b41fc97d89a6bff61a7b8",
      "name": "子节点1",
      "namePinyin": "zijiedian1",
      "namePinyinAlia": "zijiedian1",
      "index": 1,
      "type": "CATEGORY"
    }
  ],
  "error": null
}
```

3.1.1.6 Viewing the Group Tree (Including the Meeting Room)

Request URL:

- GET: /room/category/treeWithRooms

Request Parameter: None

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
    {
      "id": "fbcd6b092d0b41fc97d89a6bff61a7b8", //The primary key
      "parentId": null, //The ID of the upper group. It defaults to the ID of the root node if it is null
      "name": "yealink",
      "namePinyin": "yealink",
      "namePinyinAlia": "yealink",
      "index": 0,
      "type": "CATEGORY" //The node type, one of CATEGORY or ROOM
    },
    {
      "id": "936ced6a3341497aafd4afab7e55c9ab", //The primary key
```

```

    "parentId": "2d28e0312c02487b9b674ddff462c8b5",
    "name": "视频会议室1",
    "namePinyin": "shipinhuiyishi1",
    "namePinyinAlia": "sphys1",
    "index": 10,
    "type": "ROOM"//The node type, one of CATEGORY or ROOM
  }
],
"error": null
}

```

3.1.1.7 Viewing All Meeting Rooms in the Groups

Request URL:

- GET: /room/category/rooms

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| id | String | Yes | 32 | The ID of the group that the meeting room belongs to. |

Example of Successful Response:

```

{
  "ret": 1,
  "data": [
    {
      "createTime": 1502363517063,
      "modifyTime": 1502363517824,
      "deleted": false, //Delete the flag
      "enterprisId": "bdf9e290ac8d429c881e95aa08e99dfb",
      "name": "视频会议室1",
      "namePinyin": "shipinhuiyishi1",
      "namePinyinAlia": "sphys1",
      "type": "vc_room", //The type of the meeting room.
      "categoryId": "2d28e0312c02487b9b674ddff462c8b5", //The ID of the group that the meeting room belongs to
      "categoryName": "yealink",
      "deviceId": "49d3689459194e86b1002a8354fc2073", //The ID of the device associated with this meeting room
      "extension": "1116",
      "id": "936ced6a3341497aafd4afab7e55c9ab" //The primary key
    }
  ],
  "error": null
}

```

3.1.1.8 Adding Meeting Rooms

Request URL:

- POST: /room/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|---|
| name | String | Yes | 1-128 | The name. |
| categoryId | String | No | 32 | The ID of the group that the meeting room belongs to. It defaults to the root node. |
| type | String | No | - | The meeting room type, one of normal_room or vc_room. It defaults to normal_room. |
| deviceId | String | No | 32 | The ID of the device associated with this meeting room. For a video meeting room, this parameter is required. |

- **Example Request:**

```
{
  "name": "普通会议室3",
  "categoryId": "28b63ac63e6f4e5da686e894402571f0",
  "type": "normal_room",
  "deviceId": null
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "7d39e07b126548209d667b95efbc5af7", //The primary key
    "parentId": "28b63ac63e6f4e5da686e894402571f0", //The ID of the upper group
    "name": "普通会议室3",
    "namePinyin": "putonghuiyishi3",
    "namePinyinAlia": "pthys3",
    "type": "ROOM", //The node type, one of CATEGORY or ROOM
    "innerType": "normal_room" //The meeting room type, one of normal_room (the general meeting room) or vc_room (the video meeting room)
  },
  "error": null
}
```

3.1.1.9 Deleting Meeting Rooms

Request URL:

- POST: /room/delete

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required or not | Length | Description |
|-----------|--------------|-----------------|--------|------------------------------|
| ids | List<String> | Yes | - | The list of the primary key. |

- **Example Request:**

```
{
  "ids":["7d39e07b126548209d667b95efbc5af7"]
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.1.1.10 Editing Meeting Rooms**Request URL:**

- POST: /room/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|---|
| id | String | Yes | 32 | The primary key. |
| name | String | Yes | 2-128 | The name. |
| categoryId | String | Yes | 32 | The ID of the group that the meeting room belongs to. It defaults to the root node. |
| type | String | Yes | - | The room type, one of normal_room or vc_room. |
| deviceId | String | No | 32 | The ID of the device associated with this meeting room. For a video meeting room, this parameter is needed. |

- **Example Request:**

```
{
  "id": "7d39e07b126548209d667b95efbc5af7",
  "name": "普通会议室3",
  "categoryId": "28b63ac63e6f4e5da686e894402571f0",
  "type": "normal_room",
  "deviceId": null
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "7d39e07b126548209d667b95efbc5af7", //The primary key
    "parentId": "28b63ac63e6f4e5da686e894402571f0",
    "name": "普通会议室3",
    "namePinyin": "putonghuiyishi3",
    "namePinyinAlia": "pthys3",
    "type": "ROOM", //The node type, one of CATEGORY or ROOM.
    "innerType": "normal_room" //The meeting room type, one of normal_room (the general meeting room) or vc_room
    (the video meeting room)
  },
  "error": null
}
```

3.1.1.11 Viewing Meeting Rooms

Request URL:

- GET: /room/info

Request Parameter:

- **Query parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "c82d4ac5a0da4b4894f176014ab364bc", //The primary key
    "enterprisId": "f4a4a4ee02ac4bb8875bbd08e03d4de0", //企业idThe enterprise ID
    "name": "普通会议室3",
    "namePinyin": "putonghuiyishi3,putongkuaiyishi3",

```

```

    "namePinyinAlia": "pthys3,ptkys3",
    "type": "normal_room", //The meeting room type, one of normal_room(the general meeting room) or vc_room(the
video meeting room)
    "categoryId": "70bb76dbe0c04e1da20b5b9595730458", //The ID of the group
    "categoryName": "厦门亿联网络技术股份有限公司", //The name of the group
    "deviceId": null, //The ID of the device associated with the meeting room
    "deviceAccount": null, //The account associated with the videoconferencing device
    "deviceName": null, //The name of the videoconferencing device
    "extension": null,
    "deviceType": null, //The type of the device associated with the meeting room
  },
  "error": null
}

```

3.1.1.12 Viewing the Paging List of Meeting Rooms

Request URL:

- POST: /room/pagedList

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|---------|----------|--------|---|
| key | String | No | - | Perform a fuzzy match to the meeting room name, the group name and the extension number by searching for keywords. |
| categoryId | String | No | 32 | The ID of the group that the meeting room belongs to. |
| type | String | No | - | The meeting room type, one of normal_room or vc_room. |
| skip | Integer | No | - | The number of skipped items. It defaults to 0 if it is not configured. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | - | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |

- **Example Request:**


```
{
  "categoryId": "70bb76dbe0c04e1da20b5b9595730458",
  "type": "normal_room",
  "key": "putong",
  "skip": 0,
  "limit": 10
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "skip": 0,
    "limit": 10,
    "total": 1,
    "autoCount": true,
    "orderbys": [
      {
        "field": "createTime",
        "order": -1
      }
    ],
    "data": [
      {
        "id": "c82d4ac5a0da4b4894f176014ab364bc", //The primary key
        "enterprisId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "name": "普通会议室3", //The name of the meeting room
        "namePinyin": "putonghuiyishi3,putongkuaiyishi3",
        "namePinyinAlia": "pthys3,ptkys3",
        "type": "normal_room", //The meeting room type, one of normal_room(the general meeting room) or vc_room
        // (the video meeting room)
        "categoryId": "70bb76dbe0c04e1da20b5b9595730458", //The ID of the group that the meeting room belongs to.
        "categoryName": "厦门亿联网络技术股份有限公司", //The group name
        "deviceId": null,
        "deviceAccount": null,
        "deviceName": null,
        "extension": null,
        "equipDetailList": null,
        "deviceType": null
      }
    ],
    "key": "puto",
    "categoryId": "70bb76dbe0c04e1da20b5b9595730458",
    "type": null
  },
  "error": null
}
```

3.1.2 Virtual Meeting Room (VMR)

3.1.2.1 Adding Groups

Request URL:

- POST: /vmr/category/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| name | String | Yes | 1-128 | The name. |
| parentId | String | No | 32 | The ID of the upper group. It defaults to the ID of the root node if it is null or not requested. |

- **Example Request:**

```
{
  "name": "yealink",
  "parentId": "2d28e0312c02487b9b674ddff462c8b5"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "fbcd6b092d0b41fc97d89a6bff61a7b8", //The primary key
    "parentId": "2d28e0312c02487b9b674ddff462c8b5", //The ID of the upper group. It defaults to the root node if it is
    null
    "name": "yealink",
    "namePinyin": "yealink",
    "namePinyinAlia": "yealink",
    "index": 0,
    "type": "CATEGORY"
  },
  "error": null
}
```

3.1.2.2 Deleting Groups

Request URL:

- POST: /vmr/category/delete

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Note: you can delete only the group without any subordinate group.

- **Example Request:**

```
{
  "id": "7d39e07b126548209d667b95efbc5af7"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.1.2.3 Editing Groups

Request URL:

- POST: /vmr/category/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|----------------------------|
| id | String | Yes | 32 | The primary key. |
| name | String | Yes | 1-128 | The name. |
| parentId | String | Yes | 32 | The ID of the upper group. |

- **Example Request:**

```
{
  "id": "fbed6b092d0b41fc97d89a6bff61a7b8",
  "name": "yealink",
  "parentId": "2d28e0312c02487b9b674ddff462c8b5"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "fbcd6b092d0b41fc97d89a6bff61a7b8", //The primary key
    "parentId": "2d28e0312c02487b9b674ddff462c8b5", //The ID of the upper group
    "name": "yealink",
    "namePinyin": "yealink",
    "namePinyinAlia": "yealink",
    "index": 0, //It is used for listing
    "type": "CATEGORY" //The node type, one of CATEGORY or VMR
  },
  "error": null
}
```

3.1.2.4 Viewing the Group Details**Request URL:**

- GET: /vmr/category/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "createTime": 1501125398067,
    "modifyTime": 1501125398398,
    "deleted": false, //Delete the marking bit
    "parentId": "70bb76dbe0c04e1da20b5b9595730458", //The ID of the upper group
    "path": "70bb76dbe0c04e1da20b5b9595730458:14bf9c7e60844fe2818235e48801c4fe", //The organization path
    "index": 0, //It is used for listing
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0", //The enterprise ID
    "name": "yealink",
    "namePinyin": "yealink",
    "namePinyinAlia": "yealink",
    "id": "14bf9c7e60844fe2818235e48801c4fe" //The primary key
  },
  "error": null
}
```

3.1.2.5 Viewing the Group Tree (without VMRs)

Request URL:

- GET: /vmr/category/tree

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
    {
      "id": "fbed6b092d0b41fc97d89a6bff61a7b8", //The primary key
      "parentId": null, //The ID of the upper group. It defaults to the root node if it is null
      "name": "yealink",
      "namePinyin": "yealink",
      "namePinyinAlia": "yealink",
      "index": 0, //It is used for listing
      "type": "CATEGORY" //The node type, one of CATEGORY or VMR
      "innerType": null
    },
    {
      "id": "83ab2a2a5cb14ac9b776b2f1a52e3f0d",
      "parentId": "fbed6b092d0b41fc97d89a6bff61a7b8",
      "name": "vmrCATEGORY",
      "namePinyin": "vmrCATEGORY",
      "namePinyinAlia": "vmrCATEGORY",
      "index": 1,
      "type": "CATEGORY"
      "innerType": null
    }
  ],
  "error": null
}
```

3.1.2.6 Viewing the Group Tree (with VMRs)

Request URL:

- GET: /vmr/category/treeWithVmrs

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
```

```

{
  "id": "fbed6b092d0b41fc97d89a6bff61a7b8", //The primary key
  "parentId": null, //The ID of the upper group. It defaults to the root node if it is null
  "name": "yealink",
  "namePinyin": "yealink",
  "namePinyinAlia": "yealink",
  "index": 0, //It is used for listing
  "type": "CATEGORY" //One of CATEGORY or VMR
  "innerType": null
},
{
  "id": "9b94718c5c9946a7b94aab8ec98dcf79", //The primary key
  "parentId": "dfa89bda6c1a49128da42668eb6dbefd", //The ID of the upper group
  "name": "vmr5",
  "namePinyin": "vmr5",
  "namePinyinAlia": "vmr5",
  "index": 1,
  "type": "VMR", //The node type, one of CATEGORY or VMR
  "innerType": null,
  "vmrId": 56789 //The ID of this VMR
}
],
"error": null
}

```

3.1.2.7 Adding VMRs

Request URL:

- POST: /vmr/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------------|--------------|----------|--------|---|
| categoryId | String | No | 32 | The ID of the group that the VMR belongs to. It defaults to the root node if it is null or not requested. |
| name | String | Yes | 1-128 | The name of this VMR. |
| vmrId | String | Yes | 5 | The conference ID has 5 digits and cannot be started with 0, 1, or 9. |
| mode | String | Yes | - | The conference mode, one of default (the discussion mode) or demonstrator (the training mode). |
| password | String | No | 6 | The password to join this VMR. |
| recordingOwner | String | Yes | - | The ID of the organizer, which is also the owner of the recording files generated in this VMR. |
| moderatorsList | List<String> | No | - | The list of the moderator IDs. |
| contacts | List<String> | No | - | The list of the favorite IDs. |
| autoMuteEnable | Boolean | No | - | Mute participants automatically when they join the conference. The value can be true or false. |
| autoRecording | Boolean | No | - | Record the conference automatically. One of true or false. |
| autoInviteAfterRegEnable | Boolean | No | - | Redial participants to the conference if they are disconnected from the conference. The value can be true or false. |

| Parameter | Type | Required | Length | Description |
|----------------------------|---------------|----------|--------|--|
| voicePromptMode | Integer | No | 1 | Who can hear the audio prompt played when participants join or leave the conference. The value can be 0, 1, 2, or 3. 0 means this parameter is disabled and no one can hear the audio prompt. 1 means only participants who join or leave the conference can hear the audio prompt. 2 means only participants who join or leave the conference and moderators can hear the audio prompt. 3 means any participants. |
| liveBroadcast | LiveBroadcast | No | | The parameter of RTMP live. |
| maxAccessCount | Integer | No | -- | The maximum video parties. The value can be any integer from 1 to 1500. |
| maxAudioAccessCount | Integer | No | -- | The maximum audio-only parties. The value can be any integer from 1 to 1500. |
| maxVideoResolution | String | Yes | -- | The maximum video resolution. |
| maxSecondaryFlowResolution | String | Yes | -- | The maximum content resolution. |
| maxUpstreamBandwidth | String | Yes | -- | The maximum upstream call bandwidth. |
| maxDownstreamBandwidth | String | Yes | -- | The maximum downstream call bandwidth. |

- Parameters of a VMR with LiveBroadcast enabled:

| Parameter | Type | Required | Length | Description |
|--------------|---------|----------|--------|--|
| enable | Boolean | Yes | 32 | Enable the LiveBroadcast (RTMP live) or not. |
| definition | String | Yes | 1-128 | The definition, one of 1080P, 720P, or 360P. |
| videoSetting | String | Yes | 5 | The video setting. One of AVD which means receiving the video and the content. |
| rtmpLayout | String | Yes | - | The layout of the live, one of SpeechExcitation, PictureInPicture, or Exclusive. |
| description | String | No | 800 | The description. |

- **Example Request:**

```
{
  "name": "vmr",
  "vmrId": "88888",
  "mode": "default",
  "categoryId": "b7f9291589fd442cb8a977494d4043b3",
  "password": "123456",
  "moderatorsList": ["b2cb3c5f66cc4b79a52b3b3891eb14bb"],
  "contacts": ["b2cb3c5f66cc4b79a52b3b3891eb14bb"],
  "autoMuteEnable": true,
  "autoRecording": true,
  "autoInviteAfterRegEnable": true,
  "voicePromptMode": 1,
  "liveBroadcast": {
    "enable": true,
    "definition": "720P",
    "videoSetting": "AVD",
    "rtmpLayout": "SpeechExcitation",
    "description": "test"
  },
  "maxVideoResolution": "720P/30FPS",
  "maxSecondaryFlowResolution": "1080P/5FPS",
  "maxUpstreamBandwidth": "1Mbps",
  "maxDownstreamBandwidth": "1Mbps",
  "maxAccessCount": 8,
  "maxAudioAccessCount": 8
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "fbcd6b092d0b41fc97d89a6bff61a7b8", //The primary key
    "parentId": "b7f9291589fd442cb8a977494d4043b3", //The ID of the upper group
    "name": "vmr",
    "namePinyin": "vmr",
    "namePinyinAlia": "vmr",
    "type": "VMR",
    "vmrId": "88888"
  },
  "error": null
}
```

3.1.2.8 Deleting VMRs

Request URL:

- POST: /vmr/delete

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|------------------------------|
| ids | List<String> | Yes | - | The list of the primary key. |

- Example Request:

```
{
  "ids":["7d39e07b126548209d667b95efbc5af7"]
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.1.2.9 Editing VMRs

Request URL:

- POST: /vmr/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------------|---------------|----------|--------|--|
| id | String | Yes | 32 | The primary key. |
| categoryId | String | Yes | 32 | The ID of the group that the VMR belongs to. |
| name | String | Yes | 1-128 | The name of this VMR. |
| vmrId | String | Yes | 5 | The conference ID has 5 digits and cannot be started with 0, 1, or 9. |
| mode | String | Yes | - | The conference mode, one of default (the discussion mode) or demonstrator (the training mode). |
| password | String | No | 6 | The password to join this VMR. |
| moderatorsList | List<String> | No | - | The list of the moderator IDs. |
| contacts | List<String> | No | - | The list of the favorite IDs. |
| autoMuteEnable | Boolean | No | - | Mute participants automatically when they join the conference. The value can be true or false. |
| autoRecording | Boolean | No | - | Record the conference automatically. The value can be true or false. |
| autoInviteAfterRegEnable | Boolean | No | - | Redial participants to the conference if they are disconnected from the conference. The value can be true or false. |
| voicePromptMode | Integer | No | 1 | Who can hear the audio prompt played when participants join or leave the conference. The value can be 0, 1, 2, or 3. 0 means this parameter is disabled and no one can hear the audio prompt. 1 means only participants who join or leave the conference can hear the audio prompt. 2 means only participants who join or leave the conference and moderators can hear the audio prompt. 3 means any participants. |
| liveBroadcast | LiveBroadcast | No | | The parameter of RTMP live. |

| Parameter | Type | Required | Length | Description |
|----------------------------|---------|----------|--------|--|
| maxAccessCount | Integer | No | -- | The maximum video parties. The value can be any integer from 1 to 1500. |
| maxAudioAccessCount | Integer | No | -- | The maximum audio-only parties. The value can be any integer from 1 to 1500. |
| maxVideoResolution | String | Yes | -- | The maximum video resolution. |
| maxSecondaryFlowResolution | String | Yes | -- | The maximum content resolution. |
| maxUpstreamBandwidth | String | Yes | -- | The maximum upstream call bandwidth. |
| maxDownstreamBandwidth | String | Yes | -- | The maximum downstream call bandwidth. |

- **Example Request:**

```
{
  "id": "fbcd6b092d0b41fc97d89a6bff61a7b8",
  "name": "yealink",
  "vmrId": "88888",
  "mode": "default",
  "categoryId": "b7f9291589fd442cb8a977494d4043b3",
  "password": "123456",
  "moderatorsList": ["b2cb3c5f66cc4b79a52b3b3891eb14bb"],
  "contacts": ["b2cb3c5f66cc4b79a52b3b3891eb14bb"],
  "autoMuteEnable": true,
  "autoRecording": true,
  "autoInviteAfterRegEnable": true,
  "voicePromptMode": 1,
  "liveBroadcast": {
    "enable": true,
    "definition": "720P",
    "videoSetting": "AVD",
    "rtmpLayout": "SpeechExcitation",
    "description": "test"
  },
  "maxVideoResolution": "720P/30FPS",
  "maxSecondaryFlowResolution": "1080P/5FPS",
  "maxUpstreamBandwidth": "1Mbps",
  "maxDownstreamBandwidth": "1Mbps",
  "maxAccessCount": 8,
  "maxAudioAccessCount": 8
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "fbed6b092d0b41fc97d89a6bff61a7b8", //The primary key
    "parentId": "b7f9291589fd442cb8a977494d4043b3", //The ID of the upper group
    "name": "yealink",
    "namePinyin": "yealink",
    "namePinyinAlia": "yealink",
    "type": "VMR",
    "vmrId": "88888"
  },
  "error": null
}
```

3.1.2.10 Viewing the Details of VMRs

Request URL:

- GET: /vmr/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "createTime": 1582072345603,
    "modifyTime": 1582072345618,
    "deleted": false, //Delete the marking bit
    "_id": "6bbe3a6785554491b297aea3c7109d43",
    "categoryId": "66692d20cd674438adfa8ca08509cd68", //The ID of the group that the VMR belongs to
    "categoryName": "Demo kit test", //The group name
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0", //The enterprise ID
    "vmrId": "88866", //The VMR ID
    "password": "123456", //The password to join this VMR. When the password is null, it is disabled, otherwise, it is enabled
    "name": "vmr", //The name of the VMR
    "alias": null,
    "namePinyin": "vmr",
    "namePinyinAlia": "vmr",
    "mode": "default", //The conference mode, one of default (the discussion mode) or demonstrator (the training mode)
    "type": "cloudPort",
    "maxAccessCount": 1500, //The maximum number of video parties
    "syncDirectory": true, //Sync the contact or not
  }
}
```

```

"moderatorsList": ["eee5a5328e4540d5a3f8f99b27e92aca"],//The list of the moderator IDs
"generated": false,
"mac": null,
"terminalType": null,
"limit": 1500,
"status": "effective",
"enable": true,
"orderId": null,
"contacts":["eee5a5328e4540d5a3f8f99b27e92aca"],//The list of the favorite IDs
"maxVideoResolution": "1080P/30FPS",//The maximum video resolution
"maxSecondaryFlowResolution": "1080P/5FPS",//The maximum content resolution
"maxUpstreamBandwidth": "2Mbps",//The maximum call bandwidth (upstream)
"maxDownstreamBandwidth": "2Mbps",//The maximum call bandwidth (downstream)
"defaultLayout": "SpeechExcitation",//The default layout, one of Equality, SpeechExcitation, or 1+N
"broadcastEnable": false,//Enable broadcasting interactive or not. It is available only in the training mode conference
"autoUnmuteEnable": true,//Enable automatically muting when making the roll call or not
"maxAudioAccessCount": 1500,//The maximum number of audio-only parties
"videoSourceChangeEnable": true,//Enable only sending content or not
"selfViewEnabled": false,
"ipCallEnable": true,//Enable joining the conference by IP or not IP
"webRtcEnable": true,//Enable joining the conference by browser or not
"liveBroadcast": { //The parameter of RTMP live
  "enable": true, //Enable liveBroadcast or not
  "definition": "720P", //The definition
  "videoSetting": "AVD",//The video setting
  "description": "test",//The description
  "qrCodeUrl": null,
  "startTime": null,
  "status": null,
  "watchUrl": null,
  "verifyPassword": false,
  "password": null,
  "verifyLogin": false,
  "nameplateEnable": false,
  "speakerDetailsEnable": false,
  "rtmpLayout": "SpeechExcitation" //The layout of the live, one of SpeechExcitation, PictureInPicture, or Exclusive
},
"timeLimitBroadcast": null,
"reserveEnable": false,
"amountReserved": null,
"guestsAutoMuteEnable": false,
"conferenceLockConfig": null,
"recordingOwner": "eee5a5328e4540d5a3f8f99b27e92aca",//The organizer, the owner of the recording files
"recordingMaster": "organizer",
"autoRecording": true,//Record the conference automatically. The value can be true or false
"subtitleEnable": false,//Enable the subtitle or not
"autoMuteEnable": true,//Mute participants automatically when they join the conference. The value can be true or
false
"autoInviteAfterRegEnable": true,//Redial participants to the conference if they are disconnected from the conference.
The value can be true or false
"voicePromptMode": 1, //The audio prompt played when participants join or leave the conference
"id": "6bbe3a6785554491b297aea3c7109d43",//The primary key
},

```

```
"error": null
```

```
}
```


3.1.2.11 Viewing VMRs by Paging

Request URL:

- POST: /vmr/pagedList

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|---------|----------|--------|---|
| key | String | No | - | Perform a fuzzy match to the meeting room name, the group name and the extension number by searching keywords. |
| categoryId | String | No | - | The ID of the group that the VMR belongs to. |
| skip | Integer | No | - | The number of skipped items. It defaults to 0 if it is not configured. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | - | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |

- **Example Request:**

```
{
  "categoryId":"dfa89bda6c1a49128da42668eb6dbefd",
  "key":"vm",
  "skip":null,
  "limit":null
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "skip": null,
    "limit": null,
    "total": 0,
    "autoCount": false,
    "orderbys": null,
    "data": [
      {
        "createTime": 1582072345603,
        "modifyTime": 1582072345618,
        "deleted": false,//Delete the marking bit
        "_id": "6bbe3a678554491b297aea3c7109d43",
        "categoryId": "dfa89bda6c1a49128da42668eb6dbefd",//The ID of the group that the VMR belongs to
      }
    ]
  }
}
```

```

"categoryName": "Demo kit test", //The group name
"enterpriseld": "f4a4a4ee02ac4bb8875bbd08e03d4de0", //The enterprise ID
"vmrld": "88866", //The VMR ID
"password": "123456", //The password to join this VMR. When the password is null, it is disabled, otherwise, it is
enabled
"name": "vmr", //The name of the VMR
"alias": null,
"namePinyin": "vmr",
"namePinyinAlia": "vmr",
"mode": "default", //The conference mode, one of default (the discussion mode) or demonstrator (the training mode)
"type": "cloudPort",
"maxAccessCount": 1500, //The maximum number of video parties
"syncDirectory": true, //Sync the contact or not
"moderatorsList": ["eee5a5328e4540d5a3f8f99b27e92aca"], //The list of the moderator IDs
"generated": false,
"mac": null,
"terminalType": null,
"limit": 1500,
"status": "effective",
"enable": true,
"orderId": null,
"contacts": ["eee5a5328e4540d5a3f8f99b27e92aca"], //The list of the favorite IDs
"maxVideoResolution": "1080P/30FPS", //The maximum video resolution
"maxSecondaryFlowResolution": "1080P/5FPS", //The maximum content resolution
"maxUpstreamBandwidth": "2Mbps", //The maximum call bandwidth (upstream)
"maxDownstreamBandwidth": "2Mbps", //The maximum call bandwidth (downstream)
"defaultLayout": "SpeechExcitation", //The default layout, one of Equality, SpeechExcitation, or 1+N
"broadcastEnable": false, //Enable broadcasting interactive or not. It is available only in the training mode conference
"autoUnmuteEnable": true, //Enable automatically muting when making the roll call or not
"maxAudioAccessCount": 1500, //The maximum number of audio-only parties
"videoSourceChangeEnable": true, //Enable only sending content or not
"selfViewEnabled": false,
"ipCallEnable": true, //Enable joining the conference by IP or not
"webRtcEnable": true, //Enable joining the conference by browser or not
"liveBroadcast": { //The parameter of RTMP live
  "enable": true, //Enable liveBroadcast or not
  "definition": "720P", //The definition
  "videoSetting": "AVD", //The video setting
  "description": "test", //The description
  "qrCodeUrl": null,
  "startTime": null,
  "status": null,
  "watchUrl": null,
  "verifyPassword": false,
  "password": null,
  "verifyLogin": false,
  "nameplateEnable": false,
  "speakerDetailsEnable": false,
  "rtmpLayout": "SpeechExcitation" //The layout of the live, one of SpeechExcitation, PictureInPicture, or Exclusive
},
"timeLimitBroadcast": null,
"reserveEnable": false,

"amountReserved": null,

```

```

    "guestsAutoMuteEnable": false,
    "conferenceLockConfig": null,
    "recordingOwner": "eee5a5328e4540d5a3f8f99b27e92aca", //The organizer, the owner of the recording files
    "recordingMaster": "organizer",
    "autoRecording": true, //Record the conference automatically. The value can be true or false
    "subtitleEnable": false, //Enable the subtitle or not
    "autoMuteEnable": true, //Mute participants automatically when they join the conference. The value can be true or
false
    "autoInviteAfterRegEnable": true, //Redial participants to the conference if they are disconnected from the conference.
The value can be true or false
    "voicePromptMode": 1, //The audio prompt played when participants join or leave the conference
    "id": "6bbe3a6785554491b297aea3c7109d43" //The primary key
  }
],
  "key": null
},
  "error": null
}

```

3.2 Account Management

3.2.1 User Account

3.2.1.1 Adding Groups

Request URL:

- POST: /org/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| id | String | No | 20-128 | The group ID, which is generated automatically if you do not set it. |
| name | String | Yes | 1-128 | The group name. |
| parentId | String | No | 32 | The upper group ID. It defaults to the root node if it is null or not requested. |

- **Example Request:**

```
{
  "name": "一楼",
  "parentId": "53a282c7329845fe82d67515fbaa760f"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "41d0fc85bb904d1887c182e04188533e", //ID
    "parentId": "53a282c7329845fe82d67515fbaa760f", //The ID of the upper group
    "name": "一楼", //The group name
    "namePinyin": "yilou",
    "namePinyinAlia": "yl",
    "index": 1, //It is used for listing
    "type": "ORG" //The node type, one of ORG or STAFF
  },
  "error": null
}
```

3.2.1.2 Deleting Groups

Request URL:

- POST: /org/delete

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---------------|
| id | String | Yes | 32 | The group ID. |

Note: you can delete only the group without any subordinate group.

- **Example Request:**

```
{
  "id": "7d39e07b126548209d667b95efbc5af7"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.1.3 Editing Groups

Request URL:

- POST: /org/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---------------------|
| id | String | Yes | 32 | The group ID. |
| parentId | String | Yes | 32 | The upper group ID. |
| name | String | Yes | 1-128 | The group name. |

- **Example Request:**

```
{
  "id": "41d0fc85bb904d1887c182e04188533e",
  "name": "一楼",
  "parentId": "53a282c7329845fe82d67515fbaa760f"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "41d0fc85bb904d1887c182e04188533e",
    "parentId": "53a282c7329845fe82d67515fbaa760f",
    "name": "3C",
    "namePinyin": "3c",
    "namePinyinAlia": "3c",
    "index": 1,
    "type": "ORG" //The node type, one of ORG or STAFF
  },
  "error": null
}
```

3.2.1.4 Viewing the Group Details

Request URL:

- GET: /org/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "41d0fc85bb904d1887c182e04188533e",
    "parentId": "53a282c7329845fe82d67515fbaa760f",
    "name": "3C", //The group name
    "namePinyin": "3c",
    "namePinyinAlia": "3c",
    "index": 1,
    "type": "ORG"//The node type, one of ORG or STAFF
  },
  "error": null
}
```

3.2.1.5 Viewing the Group Tree (without User Accounts)

Request URL:

- GET: /org/tree

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": [
    {
      "id": "72e60e3c98b44e738e7726d3b21820eb",
      "parentId": "53a282c7329845fe82d67515fbaa760f",
      "name": "yealink", //The group name
      "namePinyin": "yealink",
      "namePinyinAlia": "yealink",
      "index": 1,
      "type": "ORG" //The node type, one of ORG or STAFF
    }
  ],
  "error": null
}
```

3.2.1.6 Viewing the Group Tree (with User Accounts)

Request URL:

- GET: /org/treeWithStaffs

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
    {
      "id": "41d0fc85bb904d1887c182e04188533e", //ID
      "parentId": "53a282c7329845fe82d67515fbaa760f", //The ID of the upper group
      "name": "3C", //The group name
      "namePinyin": "3c",
      "namePinyinAlia": "3c",
      "index": 1, //It is used for listing
      "account": null,
      "email": null,
      "nameWithEmail": null,
      "type": "ORG" //The node type, one of ORG or STAFF
    },
    {
      "id": "a04519ab8e3b4997aa0f1151331ac67c",
      "parentId": "53a282c7329845fe82d67515fbaa760f",
      "name": "userA",
      "namePinyin": "usera",
      "namePinyinAlia": "usera",
      "index": 1,
      "account": "745769866",
      "email": null,
      "nameWithEmail": "userA",
      "type": "STAFF"
    }
  ],
  "error": null
}
```

3.2.1.7 Viewing the Visible Tree**Request URL:**

- GET: /org/{staffId}/visibleTree

Request Parameter:

- **Path parameter:**

staffId: the user ID

Example of Successful Response:

```
{
  "ret": 4,
  "data": [
    {
      "id": "41d0fc85bb904d1887c182e04188533e", //The primary key
```



```

    "parentId": "53a282c7329845fe82d67515fbaa760f", //The ID of the upper group
    "name": "3C", //The group name
    "namePinyin": "3c",
    "namePinyinAlia": "3c",
    "index": 1,
    "account": null,
    "email": null,
    "nameWithEmail": null,
    "type": "ORG" //The node type, one of ORG, STAFF (use account), or DEVICE (room system account)
  },
  {
    "id": "a04519ab8e3b4997aa0f1151331ac67c",
    "parentId": "53a282c7329845fe82d67515fbaa760f",
    "name": "userA",
    "namePinyin": "usera",
    "namePinyinAlia": "usera",
    "index": 1,
    "account": "745769866",
    "email": null,
    "nameWithEmail": "userA",
    "type": "STAFF"
  },
  {
    "id": "favf4a4a4ee02ac4bb8875bbd08e03d4de0", //The ID of the favorite group, ID: fav+uuid
    "parentId": null,
    "name": "phone.book.favoritecontacts.root.name", //The name of the root node of the favorite
    "namePinyin": null,
    "namePinyinAlia": null,
    "namePinyinPrefixAlia": "phone.book.favoritecontacts.root.name",
    "index": 1,
    "type": "ORG"
  },
  {
    "id": "2988f6d69d45442c96bb7934a1e246f7",
    "parentId": "favf4a4a4ee02ac4bb8875bbd08e03d4de0",
    "name": "1111",
    "namePinyin": "1111",
    "namePinyinAlia": "1111",
    "namePinyinPrefixAlia": "1111",
    "index": 10000,
    "type": "ORG"
  },
],
"error": null
}

```

3.2.1.8 Adding User Accounts

Request URL:

- POST: /account/staff/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|---------------------|--------------|----------|--------|---|
| name | String | Yes | 1-128 | The account name. |
| account | String | Yes | 4 | The account number, consisting of 4 digits. |
| orgIds | List<String> | No | 32 | The group ID. It defaults to the root node if it is null or not configured. |
| email | String | No | 1-128 | The email. Use the correct email format. |
| viewPermissionType | String | No | | The permission type. The value is from A to E and defaults to A if it is not configured. |
| customOrgIds | String[] | Yes | | The ID of the visible group you customize. It is available only when you set viewPermissionType as E. |
| password | String | No | 6-16 | The system generates the password automatically if it is null or not configured. The password should at least consist of two types of the following: numbers, letters (not case sensitive), characters (!@#\$%^&*). |
| h323RegisterEnable | Boolean | No | | Enable H.323 registration or not. It defaults to false. |
| h323AuthorityEnable | Boolean | No | | Enable GK authentication or not. It defaults to false. |
| scheduleVmrEnable | Boolean | Yes | | Enable the permission of scheduling VMRs or not. It defaults to false. Note that you cannot set this parameter and scheduleEnable to true at the same time. |
| scheduleEnable | Boolean | Yes | | Enable the permission of scheduling conferences or not. It defaults to true. |
| meetNowEnable | Boolean | Yes | | Enable the permission of scheduling Meet Now conferences or not. It defaults to true. |

- **Example Request:**

```
{
  "name": "yealink",
  "account": "8888",
  "email": "d39e0@yealink.com",
  "orgIds": ["b2cb3c5f66cc4b79a52b3b3891eb14bb"]
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "b2cb3c5f66cc4b79a52b3b3891eb14bb", //The user ID which is the staffId
    "name": "yealink",
    "namePinyin": "yealink",
    "namePinyinAlia": "yealink",
    "namePinyinPrefixAlia": "yealink",
    "orgs": [ //The group information
      {
        "orgId": "b2cb3c5f66cc4b79a52b3b3891eb14bb", //The group ID
        "orgName": "四级",
        "title": "一只小兵"
      }
    ],
    "extension": "8888",
    "email": "d39e0@yealink.com",
    "username": "8888",
    "password": "aw78yo8q",
    "viewPermission": { //The permission
      "type": "A",
      "permissionVersion": "1521548908838"
    },
    "h323RegisterEnable": true, //Enable H.323 registration or not
    "h323AuthorityEnable": true, //Enable GK authentication or not
    "scheduleEnable": true, //Enable the permission of scheduling conferences or not
    "ldapAccountName": "yl1392" //The AD account
  },
  "error": null
}
```

3.2.1.9 Deleting User Accounts

Request URL:

- POST: /account/staff/delete

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|----------------------------|
| ids | List<String> | Yes | 32 | The user ID to be deleted. |

- **Example Request:**

```
{
  "ids":["7d39e07b126548209d667b95efbc5af7"]
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.1.10 Editing User Accounts

Request URL:

- POST: /account/staff/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|---------------------|--------------|----------|--------|---|
| id | String | Yes | 32 | ID. |
| name | String | Yes | 1-128 | The name. |
| orgIds | List<String> | Yes | 32 | The group ID. |
| email | String | No | 128 | The email. Use the correct email format. |
| viewPermissionType | String | No | | The value of the permission type is from A to D and defaults to A if it is not configured. |
| customOrgIds | String[] | Yes | | The ID of the visible group you customize. It is available only when you set viewPermissionType as E. |
| h323RegisterEnable | Boolean | No | | Enable H.323 registration or not. |
| h323AuthorityEnable | Boolean | No | | Enable GK authentication or not. It defaults to false. |
| scheduleVmrEnable | Boolean | Yes | | Enable the permission of scheduling VMRs or not. It defaults to false. Note that you cannot set this parameter and scheduleEnable to true at the same time. |
| scheduleEnable | Boolean | Yes | | Enable the permission of scheduling conferences or not. It defaults to true. |
| meetNowEnable | Boolean | Yes | | Enable the permission of scheduling Meet Now conferences or not. It defaults to true. |

- **Example Request:**

```
{
  "id": "7d39e07b126548209d667b95efbc5af7",
  "name": "yealink",
  "email": "d39e0@yealink.com",
  "orgIds": ["b2cb3c5f66cc4b79a52b3b3891eb14bb"]
}
```

Example of Successful Response:

```
{
```

```

"ret": 1,
"data": {
  "id": "7d39e07b126548209d667b95efbc5af7", //The user ID
  "name": "yealink",
  "namePinyin": "yealink",
  "namePinyinAlia": "yealink",
  "namePinyinPrefixAlia": "yealink",
  "orgs": [ //The group information
    {
      "orgId": "b2cb3c5f66cc4b79a52b3b3891eb14bb", //The group ID
      "orgName": "四级",
      "title": "一只小兵"
    }
  ],
  "extension": "8888",
  "email": "d39e0@yealink.com",
  "username": "8888",
  "password": "aw78yo8q",
  "viewPermission": { //The visible permission
    "type": "A",
    "permissionVersion": "1521548908838"
  },
  "h323RegisterEnable": true, //Enable H.323 registration or not
  "h323AuthorityEnable": true, //Enable GK authentication or not
  "scheduleEnable": true, //Enable the permission of scheduling conferences or not
  "ldapAccountName": "yl1392" //The AD account
},
"error": null
}

```

3.2.1.11 Viewing the Details of User Accounts

Request URL:

- GET: /account/staff/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--------------|
| id | String | Yes | 32 | The user ID. |

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "id": "b2cb3c5f66cc4b79a52b3b3891eb14bb", //The user ID which is the staffId
    "orgs": [ //The group information
      {

```

```

    "orgId": "53a282c7329845fe82d67515fbaa760f",
    "orgName": "四级",
    "title": "一只小兵"
  }
],
"extension": "1112",
"email": "huangxb@yealink.com",
"mobile": "15863514472",
"username": "693591112",
"password": "EV2+LH9AF8/H+6L3cpFRbw\u003d\u003d",
"pinCode": "657623554",

"viewPermission": { // The permission
  "type": "A",
  "permissionVersion": "1521548908838"
},
"h323RegisterEnable": true, //Enable H.323 registration or not
"h323AuthorityEnable": true, //Enable GK authentication or not
"ldapAccountName": "yl1392" //The AD account
"scheduleEnable": true, //Enable scheduling conference or not
"bindMobile": true //Associate with the cell phone number or not
},
"error": null
}

```

3.2.1.12 Viewing User Accounts by Paging

Request URL:

- POST: /account/staff/pagedList

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| orgId | String | No | 32 | The group ID. |
| skip | Integer | No | | The number of skipped items. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |
| key | String | No | | Perform a fuzzy match to the keywords. |

- **Example Request:**

```
{
  "orgId": "fhasdkklajsfiqwei938498543279klf",
  "key": "key",
  "skip": null,
  "limit": null
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "skip": null,
    "limit": null,
    "total": 5, //When the autoCount is true, the system will return the total number
    "autoCount": true,
    "orderbys": [
      {
        "field": "unionAccounts.type",
        "order": 1
      },
      {
        "field": "unionAccounts.principle",
        "order": 1
      }
    ],
    "data": [
      {
        "id": "b2cb3c5f66cc4b79a52b3b3891eb14bb", //The user ID which is the staffid
        "name": "userA",
        "account": "693591112",
        "orgs": [
          {
            "orgId": "53a282c7329845fe82d67515fbaa760f", //The primary key of the group
            "orgName": "四级",
            "title": "一只小兵"
          }
        ],
        "extension": "1112",
        "ldapAccountName": "yl1392", //The AD account
        "h323RegisterEnable": true, //Enable H.323 registration or not
        "onlineStatus": "IDLE", //The user status, one of BUSY, IDLE, or OFFLINE
        "equipDetailList": [ //The login device
          {
            "model": "Yealink VCDesktop",
            "fw_version": "1.25.254.52",
            "network_ip": "10.86.6.209",
            "phoneStatus": "IDLE", //The phone status, one of BUSY, IDLE, or OFFLINE
            "protocol": "H323"
          }
        ]
      }
    ]
  },
}
```



```

    ]
  },
  "error": null
}

```

3.2.1.13 Resetting the Passwords

Request URL:

- POST: /account/staff/resetPassword

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| id | String | Yes | 32 | The primary key. |
| password | String | Yes | 6-16 | The new password. The password should at least consist of two types of the following: numbers, letters (not case sensitive), characters (!@#\$\$%^&*). |

- **Example Request:**

```

{
  "id": "7d39e07b126548209d667b95efbc5af7",
  "password": "6097tk6"
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": "6097tk6", //The password
  "error": null
}

```

3.2.1.14 Editing the Passwords

Request URL:

- POST: /account/staff/{staffId}/changePassword

Request Parameter:

- **Path parameter:**

staffId: the user ID

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|---|
| oldPassword | String | Yes | 6-16 | The old password. |
| newPassword | String | Yes | 6-16 | The new password. The password should at least consist of two types of the following: numbers, letters (not case sensitive), characters (!@#%\$%^&*). |

- **Example Request:**

```
{
  "oldPassword": "7d39e07b",
  "newPassword": "6097tk6"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.1.15 Editing the Registered Emails

Request URL:

- POST: /account/staff/{staffId}/editEmail

Request Parameter:

- **Path parameter:**

staffId: the user ID

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| email | String | Yes | 128 | The email. Use the correct email format. |

- **Example Request:**

```
{
  "email": "7d39e07b@yealink.com"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "b2cb3c5f66cc4b79a52b3b3891eb14bb",
    "orgs": [
      {
        "orgId": "53a282c7329845fe82d67515fbaa760f",
        "orgName": "四级",
        "title": "一只小兵"
      }
    ],
    "email": "huangxb@yealink.com",
    "viewPermission": {
      "type": "A",
      "permissionVersion": "1521548908838"
    }
  },
  "error": null
}
```

3.2.1.16 Viewing the User ID by the User Account**Request URL:**

- GET: /account/staff/getByUsername

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|-------------------|
| username | String | Yes | -- | The user account. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "b2cb3c5f66cc4b79a52b3b3891eb14bb", //The user ID which is the staffId
    "orgs": [
      {
        "orgId": "53a282c7329845fe82d67515fbaa760f",
        "orgName": "四级",
        "title": "一只小兵"
      }
    ],
    "extension": "1112",
    "email": "huangxb@yealink.com",
  }
}
```

```

"mobile": "15863514472",
"username": "693591112",
"password": "EV2+LH9AF8/H+6L3cpFRbw\u003d\u003d",
"pinCode": "657623554",

"viewPermission": { //The permission
  "type": "A",
  "permissionVersion": "1521548908838"
},
"h323RegisterEnable": true, //Enable H.323 registration or not
"h323AuthorityEnable": true, //Enable GK authentication or not
"ldapAccountName": "yl1392" //The AD account
"scheduleEnable": true, //Enable scheduling conference or not
"bindMobile": true //Associate with the cell phone number or not
},
"error": null
}

{
  "ret": 1,
  "data": {
    "id": "4e9d561c72d842e88085268a935cd3bc", //The user ID which is the staffId
    "name": "8900",
    "country": null,
    "type": "ACTUAL",
    "namePinyin": "8900",
    "namePinyinAlia": "8900",
    "namePinyinPrefixAlia": "8900",
    "email": null,
    "realm": null,
    "domain": null,
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "unionAccounts": [
      {
        "principle": "8900", //The username
        "credential": "3dBvRYF5IAg2MhWhwxZ6w==", //The password (encrypted)
        "a1Hash": null,
        "a1HashAlt": null,
        "aes": null,
        "type": "CLOUD", //The account type
        "salt": null,
        "expire": null,
        "extraAttributes": {
          "extension": "8900"
        }
      }
    ],
    "businessAccounts": [
      {
        "_id": "872ff3d6f86b48b99de141a4ddb23c68",
        "principle": "8900",
        "credential": "3dBvRYF5IAg2MhWhwxZ6w==",

        "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",

```

```

    "staffIds": [
      "4e9d561c72d842e88085268a935cd3bc"
    ],
    "expire": null,
    "type": "SIP",
    "country": null,
    "extraAttributes": {
      "extension": "8900"
    },
    "modifyTime": 1573004839234,
    "id": "872ff3d6f86b48b99de141a4ddb23c68"
  }
],
"orgIds": [ //The group information
  "f7c66834f138479e8778134841242f89" //The group ID
],
"viewPermission": { // The visible permission of this user. It is the range of contacts that this user can see in his
directory
  "type": "A", //The permission type
  "customOrgIds": [], //The IDs of the visible groups. When you choose to customize the visible permission for users,
this parameter is available. Otherwise, it is not.
  "permissionVersion": "1573004839232"
},
"h323RegisterEnable": false,
"h323AuthorityEnable": false,
"scheduleEnable": true,
"deviceType": null,
"scheduleVmrEnable": false,
"meetNowEnable": true,
"mobile": null,
"bindMobile": null,
"code": null,
"requestUri": null,
"callLimitEnable": false,
"isFromSync": false,
"modifyTime": 1573711002475,
"extraAttributes": {
  "scheduleEnable": true, //Enable scheduling conference or not
  "physicalMeetingRoomEnable": true,
  "recordingSpace": -1,
  "h323RegisterEnable": false,
  "scheduleVmrEnable": false,
  "recordingEnable": false, //Enable recording or not
  "callLimitEnable": false,
  "subtitleEnable": false, //Enable subtitle or not
  "recordingTemplateId": "e4a2c431dc204d6d88a49b7d91a0619d",
  "h323AuthorityEnable": false,
  "meetNowEnable": true
},
"subtitleEnable": false
},
"error": null
}

```

3.2.1.17 Searching for the Group Tree

Request URL:

- POST: /org/{staffId}/search

Request Parameter:

- **Path Parameter:**

staffId: the user ID

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|---|
| key | String | No | - | Perform a fuzzy match to the name and the number by searching keywords. You need to pass at least one item from key and ids. |
| ids | List<String> | No | - | The group ID for searching. You need to pass at least one item from key and ids. |
| nodeTypes | List<String> | No | - | The node type for matching, one of ORG (the group), STAFF (the user account), DEVICE (the room system account), and EXTERNAL_CONTACTS (other accounts). |
| skip | Integer | No | - | The number of skipped items. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | - | The paging size. |

- Example Request:

```
{
  "key": "1",
  "limit": 200,
  "skip": 0
}
```

Example of Successful Response:

```
{
  "ret": 20,
  "data": {
    "skip": 0,
    "limit": 3,
    "total": 2820,
  }
}
```

```

"autoCount": false,
"orderbys": null,
"data": [
  {
    "id": "5323da112f2a4c14b28173d0c7661168",
    "parentId": "49bef5665e454f1f823ccab6bb141a7d",
    "name": "123",
    "namePinyin": "123",
    "namePinyinAlia": "123",
    "index": 10000,
    "type": "ORG",
    "amount": 5
  },
  {
    "id": "2d02ea89ed28482eb4b972f3bcb973a2",
    "parentId": "f0cbc6be75c445358347914d4b7380ea",
    "name": "yealink test 150",
    "namePinyin": "yealink test 150",
    "namePinyinAlia": "yealink test 150",
    "index": 190000,
    "type": "ORG",
    "amount": 1
  },
  {
    "id": "a27718fd7043473a9563fe515881c2ef",
    "parentId": "0d6eb09e58f9476a95a5cdfa614cb28f",
    "name": "陈刚",
    "namePinyin": "chengang",
    "namePinyinAlia": "cg",
    "index": 10000,
    "type": "STAFF",
    "account": "124874",
    "extension": "124874"
  }
],
"key": "1",
"ids": null,
"includeOrg": false,
"setOnlineStatus": false,
"nodeTypes": [

]
},
"error": null
}

```

3.2.1.18 Viewing the Visible Group Tree (without the Account Node)

Request URL:

- GET: /org/{staffId}/visibleOrg

Request Parameter:

- **Path parameter:**

staffId: the user ID

Example of Successful Response:

```
{
  "ret": 5,
  "data": [
    {
      "id": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "parentId": null,
      "name": "厦门亿联网络技术股份有限公司",
      "namePinyin": "xiamenyilianwangluojishugufenyouxiangongsi",
      "namePinyinAlia": "xmylwljsgfyxgs",
      "index": 1,
      "type": "ORG"
    },
    {
      "id": "199a7f546067455cb3a7ae08b1990d11",
      "parentId": "f0cbc6be75c445358347914d4b7380ea",
      "name": "安全监察部",
      "namePinyin": "anquanjianchabu",
      "namePinyinAlia": "aqjcb",
      "index": 160000,
      "type": "ORG",
      "amount": 4 //The number of account nodes(except for the subordinate group) under this group
    },
    {
      "id": "a2e3943232b347af929b3280acea929b",
      "parentId": "f0cbc6be75c445358347914d4b7380ea",
      "name": "国家工程实验室",
      "namePinyin": "guojiagongchengshiyanshi,guojiegongchengshiyanshi",
      "namePinyinAlia": "gjgcsys",
      "index": 170000,
      "type": "ORG",
      "amount": 2
    },
    {
      "id": "ecf485d3f10448e299d6f2cd75fdccaf",
      "parentId": "f0cbc6be75c445358347914d4b7380ea",
      "name": "分组",
      "namePinyin": "fenzu",
      "namePinyinAlia": "fz",
      "index": 200000,
      "type": "ORG"
    },
    {
      "id": "634be57e31094c249a07ef7a9443743a",
      "parentId": "favf4a4a4ee02ac4bb8875bbd08e03d4de0",
      "name": "分组1",
      "namePinyin": "fz1",
      "namePinyinAlia": "fenzu1",
    }
  ]
}
```



```

    "namePinyinPrefixAlia": "fenzu1",
    "index": 50000,
    "type": "ORG",
    "favContact": true //If it is true, it is the node of the favorites, otherwise, it does not
  }
],
"error": null
}

```

3.2.1.19 Viewing the Number of Account Nodes(Except for the Subordinate Groups) under the Group Tree

Request URL:

- POST: /org/{staffId}/subNode

Request Parameter:

- Path parameter:

staffId: the user ID

- Body parameter:

| Parameter | Type | Required | Length | Description |
|--------------------------|---------|----------|--------|---|
| orgId | String | Yes | - | The ID of the group. |
| favoriteContactsCategory | Boolean | No | - | It means whether or not it is a group of favorites. It defaults to false. |
| skip | Integer | No | - | The number of skipped items. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | - | The paging size. |

- Example Request:

```

{
  "orgId": "49bef5665e454f1f823ccab6bb141a7d",
  "nodeTypes": ["STAFF"],
  "limit": 200,
  "skip": 0
}

```

Example of Successful Response:

```

{
  "ret": 2,
  "data": {

```

```

"skip": 0,
"limit": 200,
"total": 2,
"autoCount": false,
"orderbys": null,
"data": [
  {
    "id": "66561aa54db943818925fe543c3f0599",
    "parentId": "49bef5665e454f1f823ccab6bb141a7d",
    "name": "1234567",
    "namePinyin": "1234567",
    "namePinyinAlia": "1234567",
    "namePinyinPrefixAlia": "1234567",
    "index": 10000,
    "type": "STAFF",
    "account": "1234567",
    "extension": "1234567"
  },
  {
    "id": "d01c5f19206b48d99d6f3653614d2053",
    "parentId": "49bef5665e454f1f823ccab6bb141a7d",
    "name": "test",
    "namePinyin": "test",
    "namePinyinAlia": "test",
    "namePinyinPrefixAlia": "test",
    "index": 20000,
    "type": "STAFF",
    "account": "55361654",
    "extension": "55361654"
  }
],
"orgId": "49bef5665e454f1f823ccab6bb141a7d",
"recursion": false,
"filterEmail": false,
"nodeTypes": [
  "STAFF"
],
"setOnlineStatus": false,
"favoriteContactsCategory": false
},
"error": null
}

```

3.2.1.20 Viewing the Numbers of Nodes of the Complete Group Tree

Request URL:

- GET: /org/nodesAmount

Request Parameter:

- None

Example of Successful Response:

```
{
  "ret": 1,
  "data": 5199,
  "error": null
}
```

3.2.1.21 Obtaining the Authentication Codes of the User Accounts

Request URL:

- post: /loginForAuthCode

Request Parameter:

- body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| username | String | Yes | | The username. |
| password | String | Yes | | The password. You can get the password from the method mentioned in the note below. |
| type | String | Yes | | The login type, one of local. |

Example of Successful Response:

```
{
  "ret":1,
  "data":{
    "authCode":"3f29b242ba714b90a02f59daa91faf42", //The authentication code
    "expireTime":1800 //The expiry time of the authentication code (seconds)
  },
  "error":null
}
```

Note:

1. Pass the encrypted password you get in [3.2.1.16 Viewing the User ID by the User Account](#).
2. Use the authentication code to request the web login address to realize the authentication. The detailed request method is as below:

```
http://10.10.10.10/login?authCode=94aab2fdd23048b6a9dbe00d952b997e&type=code
```

Description:

- `http://10.10.10.10/login` is the web login address of YMS.
- `authCode` is the authentication code. You get the authcode from the example of successful response and enter it in the web login address.
- `type` is the authentication type. Currently, the only type is code.

3. The authentication code is valid within the expiry time. After users succeed in logging in YMS with the authentication codes, the authentication codes become invalid.

3.2.2 Room System Accounts

3.2.2.1 Adding Room System Accounts

Request URL:

- POST: /account/device/add

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|---------------------|---------|----------|--------|--|
| name | String | Yes | 1-128 | The name. |
| account | String | Yes | 4 | The account number. It consists of 4 digits. |
| email | String | No | 128 | The email. Use the correct email format. |
| viewPermissionType | String | No | | The value of the permission type is from A to and defaults to A if it is not configured. |
| password | String | No | 6-16 | The system generates the password automatically if it is null or not requested. The password should at least consist of two types of the following: numbers, letters (not case sensitive), characters (!@#\$\$%^&*). |
| h323RegisterEnable | Boolean | No | | Enable H.323 registration or not. It defaults to false. |
| h323AuthorityEnable | Boolean | No | | Enable GK authentication or not. It defaults to false. |

- Example Request:

```
{
  "name": "视频设备",
  "account": "8888",
  "email": "d39e0@yealink.com"
}
```

Example of Successful Response:

```
{
  "ret": 1,
```

```

"data": {
  "id": "ef82508733934c5483d30c3623b5e814", //The primary key
  "name": "视频设备",
  "namePinyin": "shipinshebei",
  "namePinyinAlia": "spsb",
  "extension": "6666",
  "account": "6666",
  "password": "426t88jj",
  "email": "dd39e0@yealink.com",
  "roomId": null, //The ID of the associated meeting room
  "roomName": null, //The name of the associated meeting room
  "bind": false, //Associate with the meeting room or not
  "orgs": [ //The group information
    {
      "orgId": "53a282c7329845fe82d67515fbaa760f",
      "orgName": "四级",
      "title": "一只小兵"
    }
  ],
  "viewPermission": { //The permission
    "type": "A",
    "permissionVersion": "1521548908838"
  },
  "h323RegisterEnable": true, //Enable H.323 registration or not
  "h323AuthorityEnable": true, //Enable GK authentication or not
  "scheduleEnable": true, //Enable scheduling conference or not
  "ldapAccountName": "yl1392" //The AD account
},
"error": null
}

```

3.2.2.2 Deleting Room System Accounts

Request URL:

- POST: /account/device/delete

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|------------------------------|
| ids | List<String> | Yes | 32 | The list of the primary key. |

- Example Request:

```

{
  "ids":["789ewqpofdkjdlaip0234fdsafsda"]
}

```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.2.3 Editing Room System Accounts**Request URL:**

- POST: /account/device/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|---------------------|---------|----------|--------|--|
| id | String | Yes | 32 | The primary key. |
| name | String | Yes | 1-128 | The name. |
| email | String | No | 128 | The email. Use the correct email format. |
| viewPermissionType | String | No | | The value of the permission type is from A to D and defaults to A if it is not configured. |
| h323RegisterEnable | Boolean | No | | Enable H.323 registration or not. It defaults to false. |
| h323AuthorityEnable | Boolean | No | | Enable GK authentication or not. It defaults to false. |

- **Example Request:**

```
{
  "id": "ef82508733934c5483d30c3623b5e814",
  "name": "yealink"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "ef82508733934c5483d30c3623b5e814",
    "name": "视频设备7",
  }
}
```

```

"namePinyin": "yealink",
"namePinyinAlia": "yealink",
"extension": "7777",
"account": "7777",
"password": "426t88jj",
"email": "linhh@yealink.com",
"roomId": null, //The ID of the associated meeting room
"roomName": null, //The name of the associated meeting room
"bind": false, //Associate with the meeting room or not
"orgs": [ //The group information
  {
    "orgId": "53a282c7329845fe82d67515fbaa760f",
    "orgName": "四级",
    "title": "一只小兵"
  }
],
"viewPermission": { //The visible permission
  "type": "A",
  "permissionVersion": "1521548908838"
},
"h323RegisterEnable": true, //Enable H.323 registration or not
"h323AuthorityEnable": true, //Enable GK authentication or not
"scheduleEnable": true, //Enable scheduling conference or not
"ldapAccountName": "yl1392" //The AD account
},
"error": null
}

```

3.2.2.4 Viewing Room System Accounts

Request URL:

- GET: /account/device/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "id": "ef82508733934c5483d30c3623b5e814",
    "name": "视频设备",
    "namePinyin": "shipinshebei",
    "namePinyinAlia": "spsb",
    "extension": "7777",

```



```

"account": "7777",
"password": "426t88jj",
"email": "linhh@yealink.com",
"roomId": null, //The ID of the associated meeting room
"roomName": null, //The name of the associated meeting room
"bind": false, //Associate with the meeting room or not
"orgs": [ //The group information
{
  "orgId": "53a282c7329845fe82d67515fbaa760f",
  "orgName": "四级",
  "title": "一只小兵"
}
],
"viewPermission": { //The visible permission
  "type": "A",
  "permissionVersion": "1521548908838"
},
"onlineStatus": "IDLE", //The status of user, one of BUSY, IDLE, pr, OFFLINE
"h323RegisterEnable": true, //Enable H.323 registration or not
"h323AuthorityEnable": true, //Enable GK authentication or not
"scheduleEnable": true, //Enable scheduling conference or not
"ldapAccountName": "yl1392" //The AD account
},
"error": null
}

```

3.2.2.5 Viewing Room System Accounts by Paging

Request URL:

- POST: /account/device/pagedList

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| key | String | No | | Perform a fuzzy match to the meeting room name, the account by searching keywords. |
| skip | Integer | No | | The number of skipped items. It defaults to 0 if it is not configured. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |

- **Example Request:**

```
{
  "key": "device",
  "skip": null,
  "limit": null
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "skip": null,
    "limit": null,
    "total": 1,
    "autoCount": true,
    "orderbys": null,
    "data": [
      {
        "id": "82aa5d8f22e842ad9149bc812fb43fbb",
        "name": "device3",
        "namePinyin": "device3",
        "namePinyinAlia": "device3",
        "extension": "2002",
        "account": "367012002",
        "password": null,
        "pin": null,
        "email": "device2@yealink.com",
        "bind": true,
        "roomId": "15861eae32184c6597e80f862207edca",
        "roomName": "会议室2",
        "roomNamePinyin": "huiyishi2",
        "roomNamePinyinAlia": "hys2",
        "orgs": null,
        "viewPermission": null,
        "ldapAccountName": "yl1111",
        "h323RegisterEnable": false,
        "h323AuthorityEnable": true,
        "onlineStatus": "IDLE", //The user status, one of BUSY, IDLE, or OFFLINE
        "equipDetailList": [ //The login device
          {
            "model": "Yealink VCDesktop",
            "fw_version": "1.25.254.52",
            "network_ip": "10.86.6.209",
            "phoneStatus": "IDLE", //The phone status, one of BUSY, IDLE, or OFFLINE
            "protocol": "H323"
          }
        ]
      }
    ],
  },
  "error": null
}
```

3.2.2.6 Viewing the Room System Accounts Not Associated with Meeting Rooms

Request URL:

- GET: /account/device/unbound

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| key | String | No | | Perform a fuzzy match to the meeting room name, the account number by searching keywords. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": [
    {
      "id": "82aa5d8f22e842ad9149bc812fb43fbb",
      "name": "device3",
      "namePinyin": "device3",
      "namePinyinAlia": "device3",
      "extension": "2002",
      "account": "367012002",
      "password": null,
      "pin": null,
      "email": "device2@yealink.com",
      "bind": false,
      "roomId": "null",
      "roomName": "null",
      "roomNamePinyin": "null",
      "roomNamePinyinAlia": "null",
      "orgs": null,
      "viewPermission": null,
      "ldapAccountName": "yl1111",
      "h323RegisterEnable": false,
      "h323AuthorityEnable": true,
      "onlineStatus": "IDLE", //The user status, one of BUSY, IDLE, or OFFLINE. The front end need to set the user as
      "online": if the user is idle and busy
      "equipDetailList": [ //The login device
        {
          "model": "VCDesktop",
          "fw_version": "1.25.254.52",
          "network_ip": "10.86.6.209",
          "phoneStatus": "IDLE", //The phone status, one of BUSY, IDLE, or OFFLINE. The front end need set the user
          "online": if the phone is idle and busy
          "protocol": "H323"
        }
      ]
    }
  ]
}
```

```

    }
  ]
},
],
"error": null
}

```

3.2.2.7 Resetting the Passwords

Request URL:

- POST: /account/device/resetPassword

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| id | String | Yes | 32 | The primary key |
| password | String | Yes | 8-20 | The new password. The password should at least consist of two types of the following: numbers, letters (not case sensitive), characters (!@#\$\$%^&*). |

- **Example Request:**

```

{
  "id": "7d39e07b126548209d667b95efbc5af7",
  "password": "6097tk6"
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": "6097tk6", //The password
  "error": null
}

```

3.2.2.8 Editing the Passwords

Request URL:

- POST: /account/device/{id}/changePassword

Request Parameter:

- **Path parameter:**

id: the ID of the room system account.

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|--|
| oldPassword | String | Yes | 8-20 | The old password. |
| newPassword | String | Yes | 8-20 | The new password. The password should at least consist of two types of the following: numbers, letters (not case sensitive), characters (!@#\$\$%^&*). |

- **Example Request:**

```
{
  "oldPassword": "7d39e07b",
  "newPassword": "6097tkt6"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.2.9 Editing the Registered Emails

Request URL:

- POST: /account/device/{id}/editEmail

Request Parameter:

- **Path parameter:**

id: the ID of the room system account.

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|-------------|
| email | String | Yes | 128 | The email. |

- **Example Request:**

```
{
  "email": "7d39e07b@yealink.com"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "b2cb3c5f66cc4b79a52b3b3891eb14bb",
    "orgs": [
      {
        "orgId": "53a282c7329845fe82d67515fbaa760f",
        "orgName": "四级",
        "title": "一只小兵"
      }
    ],
    "email": "huangxb@yealink.com",
    "viewPermission": {
      "type": "A",
      "permissionVersion": "1521548908838"
    },
    "error": null
  }
}
```

3.2.2.10 Viewing the Visible Tree

Request URL:

- GET: /account/device/{id}/visibleTree

Request Parameter:

- **Path parameter:**

id: the ID of the room system account.

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
    {
      "id": "41d0fc85bb904d1887c182e04188533e",
      "parentId": "53a282c7329845fe82d67515fbaa760f",
      "name": "3C",
      "namePinyin": "3c",
      "namePinyinAlia": "3c",
      "index": 1,
    }
  ]
}
```

```
    "account": "7777",
    "type": "ORG" //The node type, one of ORG, STAFF, or DEVICE
  },
  {
    "id": "a04519ab8e3b4997aa0f1151331ac67c",
    "parentId": "53a282c7329845fe82d67515fbaa760f",
    "name": "userA",
    "namePinyin": "usera",
    "namePinyinAlia": "usera",
    "index": 1,
    "account": "1234",
    "type": "STAFF"
  }
],
"error": null
}
```

3.2.3 External Contacts

3.2.3.1 Adding External Contacts

Request URL:

- POST: /account/externalContacts/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| name | String | Yes | 1-128 | The name. |
| type | String | Yes | -- | One of H323, SFB or SIP. |
| number | String | Yes | 1-128 | The account number, when the account type is SIP, the account number is the IP address or the URL. |
| email | String | No | 128 | The email. |
| orgId | String | No | 32 | The ID of the group that this account belongs to. It defaults to the root node if it is null. |

- **Example Request:**

```
{
  "name": "linhh",
  "type": "H323",
  "number": "123"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "a1a079d2d8294f279336f5005682fba4",
    "name": "linhh",
    "type": "H323",
    "number": "123",
    "email": null,
    "orgs": [{
      "orgId": "c8098cce59af49b2b62b74bdd472ada9",
      "orgName": "测试_1015",
      "title": null,
      "index": 80000
    }]
  },
}
```



```
"error": null
}
```

3.2.3.2 Editing External Contacts

Request URL:

- POST: /account/externalContacts/edit

Request Parameter:

- **Body parameter:**

| **Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|--|
| id | String | Yes | 32 | The primary key and the account ID. |
| name | String | Yes | 1-128 | The account name. |
| type | String | Yes | -- | One of H323, SFB or SIP. |
| number | String | Yes | 1-128 | The account number, when the account type is SIP, the account number is the IP address or the URL. |
| email | String | No | 128 | The email. |
| orgId | String | No | 32 | The ID of the group that this account belongs to. It defaults to the root node if it is null. |

- **Example Request:**

```
{
  "id": "a1a079d2d8294f279336f5005682fba4",
  "name": "linhh",
  "type": "H323",
  "number": "123"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "a1a079d2d8294f279336f5005682fba4",
    "name": "linhh",
    "type": "H323",
    "number": "123",
    "email": null,
    "orgs": [{
      "orgId": "c8098cce59af49b2b62b74bdd472ada9",
      "orgName": "测试_1015",

```

```

    "title": null,
    "index": 80000
  }],
  "error": null
}

```

3.2.3.3 Deleting External Contacts

Request URL:

- POST: /account/externalContacts/delete

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|------------------------------|
| ids | List<String> | Yes | 32 | The list of the primary key. |

- Example Request:

```

{
  "ids":["789ewqpofdkjlaip0234fdsafsda"]
}

```

Example of Successful Response:

```

{
  "ret": 0,
  "data": null,
  "error": null
}

```

3.2.3.4 Viewing External Contacts by Paging

Request URL:

- POST: /account/externalContacts/pagedList

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| type | String | No | | One of H323, SFB or SIP. |
| skip | Integer | No | | The number of skipped items. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |
| key | String | No | | Perform a fuzzy match to the keywords. |
| orgId | String | No | | The group ID. |

- **Example Request:**

```
{
  "type": "H323",
  "key": null,
  "skip": null,
  "limit": null,
  "orgId": null
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "skip": null,
    "limit": null,
    "total": 0,
    "autoCount": false,
    "orderbys": [{
      "field": "createTime",
      "order": -1
    }],
    "data": [{
      "id": "a1a079d2d8294f279336f5005682fba4",
      "name": "linhh",
      "type": "H323",
      "number": "223456",
      "email": null,
      "orgs": [{
        "orgId": "c8098cce59af49b2b62b74bdd472ada9",
        "orgName": "测试_1015",
        "title": null,
        "index": null
      }]
    }]
  }
}
```

```

},
"error": null
}

```

3.2.3.5 Viewing the Details of External Contacts

Request URL:

- GET: /account/externalContacts/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|----------------------------------|
| id | String | Yes | 32 | The primary key, the account ID. |

- Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "id": "a5314311aafa4133afefd2aea1cf0951",
    "name": "linhh",
    "type": "H323",
    "number": "123",
    "email": "linhh@yealink.com",
    "orgs": [{
      "orgId": "c8098cce59af49b2b62b74bdd472ada9",
      "orgName": "150测试_1015",
      "title": null,
      "index": 30000
    }]
  },
  "error": null
}

```

3.2.3.6 Viewing the Group Tree (without Contacts)

Request URL:

- GET: /account/externalContacts/org/tree

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": [{
    "id": "c8098cce59af49b2b62b74bdd472ada9", //The group ID
    "parentId": "c328f9d9e52e4c00aa7945f80b07384c",
    "name": "150测试_1015",
    "type": "ORG", //The node type, one of ORG or EXTERNAL_CONTACTS
    "namePinyin": "150ceshi_1015",
    "namePinyinAlia": "150ceshi_1015",
    "index": 30000
  }],
  "error": null
}
```

3.2.3.7 Viewing the Group Tree (with the Contact)

Request URL:

- GET: /account/externalContacts/org/treeWithExternalContacts

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 2,
  "data": [{
    "id": "c8098cce59af49b2b62b74bdd472ada9", //The group ID
    "parentId": "c328f9d9e52e4c00aa7945f80b07384c",
    "name": "150测试_1015",
    "type": "ORG", //The node type, one of ORG or EXTERNAL_CONTACTS
    "account": null,
    "email": null,
    "extension": null,
    "extraAttributes": null,
    "namePinyin": null,
    "namePinyinAlia": null,
    "index": 30000
  }, {
    "id": "a5314311aafa4133afefd2aea1cf0951", //The ID of the contact
    "parentId": "c8098cce59af49b2b62b74bdd472ada9",
    "name": "linhh",
    "type": "EXTERNAL_CONTACTS", //The node type, one of ORG or EXTERNAL_CONTACTS
    "account": "h323:123",
    "extraAttributes": {
      "number": "123",
      "type": "H323",
      "bind": false,
      "key": "h323:123"
    },
    "namePinyin": "linhh",
  }]
```

```

    "namePinyinAlia": "linhh",
    "index": 30000,
    "extension": "h323:123"
  }},
  "error": null
}

```

3.2.3.8 Viewing the Group Details

Request URL:

- GET: /account/externalContacts/org/info

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "id": "c8098cce59af49b2b62b74bdd472ada9", //The primary key of the group
    "parentId": "c328f9d9e52e4c00aa7945f80b07384c", //The primary key of the parent node
    "name": "150测试_1015",
    "path": "c328f9d9e52e4c00aa7945f80b07384c:c8098cce59af49b2b62b74bdd472ada9", //The node path
    "index": 30000,
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "namePinyin": null,
    "namePinyinAlia": null,
  },
  "error": null
}

```

3.2.3.9 Adding Groups

Request URL:

- POST: /account/externalContacts/org/add

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| name | String | Yes | 1-128 | The group name. |
| parentId | String | No | 32 | The ID of the upper group. It defaults to the root node if it is null or not configured. |

- **Example Request:**

```
{
  "name": "分组1"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "12980dd7bbef4bd9b8e60cf63e24fcde",
    "parentId": "d78039352cb44cc680519901db11564a",
    "name": "分组1",
    "namePinyin": "fenzu1",
    "namePinyinAlia": "fz1",
    "index": 10000,
    "type": "ORG"
  },
  "error": null
}
```

3.2.3.10 Editing Groups

Request URL:

- POST: /account/externalContacts/org/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|----------------------------|
| id | String | Yes | 32 | The group ID. |
| name | String | Yes | 1-128 | The group name. |
| parentId | String | Yes | 32 | The ID of the upper group. |

- **Example Request:**

```
{
  "id": "a45276617cd04979a7117ed08aad111b",
  "name": "分组1",
  "parentId": "c8098cce59af49b2b62b74bdd472ada9"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "origOrg": { //The information of the original group
      "id": "12980dd7bbef4bd9b8e60cf63e24fcde",
      "parentId": "d78039352cb44cc680519901db11564a",
      "name": "分组1",
      "namePinyin": "fenzu1",
      "namePinyinAlia": "fz1",
      "index": 10000,
      "type": "ORG"
    },
    "org": { //The edited information of the group
      "id": "12980dd7bbef4bd9b8e60cf63e24fcde",
      "parentId": "d78039352cb44cc680519901db11564a",
      "name": "分组11",
      "namePinyin": "fenzu11",
      "namePinyinAlia": "fz11",
      "index": 10000,
      "type": "ORG"
    }
  },
  "error": null
}
```

3.2.3.11 Deleting Groups

Request URL:

- POST: /account/externalContacts/org/delete

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---------------|
| id | String | Yes | 32 | The group ID. |

- **Example Request:**


```
{
  "id": "7d39e07b126548209d667b95efbc5af7"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.4 Sub-Administrator Accounts

3.2.4.1 Adding Sub-Administrator Accounts

Request URL:

- POST: /subManager/add

Request parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| username | String | Yes | 1-64 | The username, which can only consist of numbers, letters, and 3 special characters (@ . -). |
| password | String | No | 32 | The password in the cleartext becomes a 32-digit value after MD5 encryption. It defaults to <i>v12345678</i> if it is null or not configured. |

- Example Request:

```
{
  "username": "subadmin",
  "password": "5f4dcc3b5aa765d61d8327deb882cf99" //It corresponds to v12345678 in the cleartext
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "85bc62b2c28640a2a1674f25851d5c50", //The ID of the primary key
    "username": "subadmin",
    "type": "CONFERENCE_MANAGER_WRITE", //The type of the sub administrator, one is the conference manager
  }
}
```

```

"createTime": 1544440166736,
"online": null,
"enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
"email": null,
"contact": null,
"phoneNo": null,
"address": null,
"privileges": null,
"roles": null,
"permitRelations": null
},
"error": null
}

```

3.2.4.2 Deleting Sub-Administrator Accounts

Request URL:

- POST: /subManger/delete

Request parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|------------------------------|
| ids | List<String> | Yes | 32 | The list of the primary key. |

- Example Request:

```

{
  "ids":["789ewqpofdkjdlai0234fdsafsda"]
}

```

Example of Successful Response:

```

{
  "ret": 0,
  "data": null,
  "error": null
}

```

3.2.4.3 Resetting Passwords

Request URL:

- POST: /subManager/resetPassword

Request parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| id | String | Yes | 32 | The primary key. |
| password | String | No | 32 | The password in the cleartext becomes a 32-digit value after MD5 encryption. It defaults to <i>v12345678</i> if it is null or not configured. |

- Example Request:

```
{
  "id": "7d39e07b126548209d667b95efbc5af7",
  "password": "d121beb33d2c558b6c1b630033ffd72f" //It corresponds to v12345678 in the cleartext
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.4.4 Editing Passwords

Request URL:

- POST: /subManager/{uid}/changePassword

Request parameter:

- **Path parameter:**

uid: the ID of the sub-administrator account.

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|---|
| oldPassword | String | Yes | 32 | It is 32-digit after encrypting the old password via MD5. |
| newPassword | String | Yes | 32 | It is 32-digit after encrypting the new password via MD5. |

- Example Request:

```
{
  "oldPassword": "5f4dcc3b5aa765d61d8327deb882cf99",
  "newPassword": "24086cd014f14223839d6a6137cfd517"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.2.4.5 Viewing Sub-Administrator Accounts

Request URL:

- GET: /subManger/info

Request parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| id | String | Yes | 32 | The primary key. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "username": "subadmin",
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "id": "85bc62b2c28640a2a1674f25851d5c50",
    "privileges": [],
    "type": "CONFERENCE_MANAGER", //The conference manager, one of the sub administrators
    "model": "WRITE"
  },
  "error": null
}
```

3.2.4.6 Viewing Sub-Administrator Accounts by Paging

Request URL:

- POST: /subManger/pagedList

Request parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| key | String | No | | Perform a fuzzy match to the name, the account number via searching for the keywords. |
| skip | Integer | No | | The number of skipped items. It defaults to 0. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |

- **Example Request:**

```
{
  "key": "key",
  "skip": null,
  "limit": null
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "skip": null,
    "limit": null,
    "total": 1,
    "autoCount": true,
    "orderbys": null,
    "data": [
      {
        "id": "30c0994b60ea4d8fadeac089d342c801", //The ID of the primary key
        "username": "123456",
        "type": "CONFERENCE_MANAGER", //The conference manager, one of the sub administrators
        "createTime": 1544426665339,
        "online": false,
        "enterprisId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "email": null,
        "contact": null,
        "phoneNo": null,
        "address": null,
        "privileges": null,
        "roles": null,
        "permitRelations": null,
        "_id": "30c0994b60ea4d8fadeac089d342c801",
        "model": "WRITE"
      }
    ]
  }
}
```

```
]
},
"error": null
}
```

3.2.5 Groups of Favorites

3.2.5.1 Adding Groups

Request URL:

- POST: /favoriteContacts/category/{staffId}/add

Request parameter:

- **Path parameter:**

staffId: the user ID

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------------|----------|--------|--|
| name | String | Yes | 1-128 | The group name. |
| contacts | List<Contact> | No | - | The group which the favorite belongs to. |

Parameter object:

Contact

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| contactId | String | Yes | 32 | The ID of the contact. |
| type | String | Yes | - | The type of the contacts, one of STAFF (the user account), DEVICE (the room system account), and EXTERNAL_CONTACTS (other accounts). |

- Example Request:

```
{
  "name": "分组1",
  "contacts": [
    {
      "contactId": "cee42d0a9ab04318bea57fb1763ec63f",
      "type": "STAFF"
    },
    {
      "contactId": "2988f6d69d45442c96bb7934a1e246f7",
      "type": "DEVICE"
    }
  ]
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "_id": "634be57e31094c249a07ef7a9443743a", //The primary key
    "name": "分组1",
    "namePinyin": "fz1",
    "namePinyinAlia": "fenzu1",
    "parentId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "path": "f4a4a4ee02ac4bb8875bbd08e03d4de0:634be57e31094c249a07ef7a9443743a",
    "index": 50000,
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "staffId": "5c8d4ac962c34601afb19cf6464fa856",
    "createTime": 1550489046627,
    "contactsIds": [],
    "id": "634be57e31094c249a07ef7a9443743a"
  },
  "error": null
}
```

3.2.5.2 Deleting Groups

Request URL:

- POST: /favoriteContacts/category/{staffId}/delete

Request parameter:

- **Path parameter:**

staffId: the user ID

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|----------------------|
| id | String | Yes | 32 | The ID of the group. |

- Example Request:

```
{
  "id": "789ewqpofdkjlaip0234fdsafsda"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```


3.2.5.3 Editing Groups

Request URL:

- POST: /favoriteContacts/category/{staffId}/edit

Request parameter:

- **Path parameter:**

staffId: the user ID

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------------|----------|--------|--|
| id | String | Yes | 32 | The ID of the group. |
| name | String | Yes | 1-128 | The name of the group. |
| contacts | List<Contact> | No | 32 | The group which the favorite belongs to. |

Parameter object:

Contact

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| contactId | String | Yes | 32 | The ID of the contact. |
| type | String | Yes | - | The type of the contacts, one of STAFF (the user account), DEVICE (the room system account), and EXTERNAL_CONTACTS (other accounts). |

- Example Request:

```
{
  "id": "634be57e31094c249a07ef7a9443743a",
  "name": "分组1",
  "contacts": [
    {
      "contactId": "c1cca0ae7f814a74845d20152525f157",
      "type": "STAFF"
    },
    {
      "contactId": "c207326853b245d889065ad338beb085",
      "type": "EXTERNAL_CONTACTS"
    }
  ]
}
```

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "removeContacts": [ //The removed contact
      {
        "contactId": "77fb40491f5748d4ae08219a4bd34b6e",
        "type": "STAFF"
      }
    ],
    "addContacts": [ //The added contact
      {
        "contactId": "c1cca0ae7f814a74845d20152525f157",
        "type": "STAFF"
      }
    ],
    "origCategory": { //The group before being edited
      "_id": "634be57e31094c249a07ef7a9443743a",
      "name": "分组1",
      "namePinyin": "fz1",
      "namePinyinAlia": "fenzu1",
      "parentId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "path": "f4a4a4ee02ac4bb8875bbd08e03d4de0:634be57e31094c249a07ef7a9443743a",
      "index": 50000,
      "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "staffId": "5c8d4ac962c34601afb19cf6464fa856",
      "createTime": 1550489046627,
      "contactIds": [],
      "id": "634be57e31094c249a07ef7a9443743a"
    },
    "category": { //The group after being edited
      "_id": "634be57e31094c249a07ef7a9443743a",
      "name": "分组1",
      "namePinyin": "fz1",
      "namePinyinAlia": "fenzu1",
      "parentId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "path": "f4a4a4ee02ac4bb8875bbd08e03d4de0:634be57e31094c249a07ef7a9443743a",
      "index": 50000,
      "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "staffId": "5c8d4ac962c34601afb19cf6464fa856",
      "createTime": 1550489046627,
      "contactIds": [],
      "id": "634be57e31094c249a07ef7a9443743a"
    }
  },
  "error": null
}

```

3.2.5.4 Viewing Groups

Request URL:

- GET: /favoriteContacts/category/{staffId}/info

Request parameter:

- **Path parameter:**

staffId: the user ID

- **Query parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------------------|
| id | String | Yes | 32 | The ID of the primary group. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "_id": "634be57e31094c249a07ef7a9443743a",
    "name": "分组1",
    "namePinyin": "fz1",
    "namePinyinAlia": "fenzu1",
    "parentId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "path": "f4a4a4ee02ac4bb8875bbd08e03d4de0:634be57e31094c249a07ef7a9443743a",
    "index": 50000,
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "staffId": "5c8d4ac962c34601afb19cf6464fa856",
    "createTime": 1550489046627,
    "contactsIds": [
      "c207326853b245d889065ad338beb085",
      "c1cca0ae7f814a74845d20152525f157"
    ],
    "id": "634be57e31094c249a07ef7a9443743a"
  },
  "error": null
}
```

3.2.5.5 Viewing Groups by Paging**Request URL:**

- POST: /favoriteContacts/category/{staffId}/pagedList

Request parameter:

- **Path parameter:**

staffId: the user ID

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| key | String | No | | Perform a fuzzy match to the group name via searching for the keywords. |
| skip | Integer | No | | The number of skipped items, default to 0. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |

- Example Request:

```
{
  "key": "fenzu",
  "skip": 0,
  "limit": 20
}
```

Example of Successful Response:

```
{
  "ret": 5,
  "data": {
    "skip": 0,
    "limit": 20,
    "total": 2,
    "autoCount": false,
    "orderbys": null,
    "data": [
      {
        "_id": "634be57e31094c249a07ef7a9443743a",
        "name": "分组1",
        "namePinyin": "fz1",
        "namePinyinAlia": "fenzu1",
        "parentId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "path": "f4a4a4ee02ac4bb8875bbd08e03d4de0:634be57e31094c249a07ef7a9443743a",
        "index": 50000,
        "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "staffId": "5c8d4ac962c34601afb19cf6464fa856",
        "createTime": 1550489046627,
        "contactsIds": [],
        "amount": 2,
        "id": "634be57e31094c249a07ef7a9443743a"
      },
      {
        "_id": "8db8869d345e491793bf58af64359934",
        "name": "545454",
        "namePinyin": "545454",

```

```

    "namePinyinAlia": "545454",
    "parentId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "path": "f4a4a4ee02ac4bb8875bbd08e03d4de0:8db8869d345e491793bf58af64359934",
    "index": 40000,
    "enterpriseld": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "staffId": "5c8d4ac962c34601afb19cf6464fa856",
    "createTime": 1550487982789,
    "contactsIds": [],
    "amount": 3,
    "id": "8db8869d345e491793bf58af64359934"
  }
],
"key": "",
"orderByField": null,
"order": 1
},
"error": null
}

```

3.2.6 Managing the Number Resource

3.2.6.1 Obtaining the Number Resource by Paging

Request URL:

- POST: /numberResource/pagedList

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| key | String | No | | The keyword. Perform a fuzzy match to the remark with the keyword. |
| type | String | No | | The type of number resource. |
| skip | Integer | No | | The number of skipped items. It defaults to 0 if it is not configured. For example, if you want to view the data on page 3, skip = 2 * limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |

- Example Request:

```

{
  "skip": 0,
  "limit": 10
}

```

Example of Successful Response:

```
{
  "ret": 2,
  "data": {
    "skip": 0,
    "limit": 10,
    "total": 2,
    "autoCount": true,
    "orderbys": [],
    "data": [
      {
        "type": "extension", //The type of number resource
        "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "startValue": "0000", //The start value of the number
        "endValue": "9999", //The end value of the number
        "remark": null, //The remark
        "group": "extension", //The group
        "id": "0718533ba3bd437a9fc860a9a72f5766"
      },
      {
        "type": "conference",
        "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "startValue": "20000",
        "endValue": "99999",
        "remark": null,
        "group": "conference",
        "id": "6aedc8dfdade4c57b739f6e3f8931b68"
      }
    ]
  },
  "error": null
}
```

3.2.6.2 Adding Number Resources

Request URL:

- POST: /numberResource/add

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|--|
| type | String | Yes | | The type of the number resource, one of extension (the system account), conference (the general conference), conference_vmr (the VMR), conference_meetnow (the Meet Now conference), and conference_recurrence (the scheduled conference). |
| startValue | String | Yes | | The start value of the number. Its digit should be the same as the one of the end value and not be more than the digit of the end value. The maximum digit is 15. |
| endValue | String | Yes | | The end value of the number. The maximum digit is 15. |
| remark | String | No | | The remark. |

- **Example Request:**

```
{
  "type": "extension",
  "startValue": "555555",
  "endValue": "666666"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "type": "extension",
    "enterpriseld": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "startValue": "555555",
    "endValue": "666666",
    "remark": null,
    "group": "extension",
    "id": "695b2ee9c90249079cb626d73d168624"
  },
  "error": null
}
```

Note:

- If you want to add and use the system accounts (the user account and the room system account), the account number should comply with the corresponding number resource.
- Here are four types of the conference number, one of conference (the general conference), conference_vmr (the VMR), conference_meetnow (the Meet Now conference), and conference_recurrence (the scheduled conference). When you apply for the conference number, the system will find the number segment of the corresponding type firstly. If the system cannot find the corresponding one, it will get the conference number in the number segment of the general conference.
- The conference number segment cannot be started with 0.

3.2.6.3 Editing the Number Resources

Request URL:

- POST: /numberResource/edit

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|---|
| id | String | Yes | | The ID of the number resource. |
| type | String | Yes | | The type of number resource. |
| startValue | String | Yes | | The start value of the number. Its digit should be the same as the one of the end value and not be more than the digit of the end value. The maximum digit is 15. |
| endValue | String | Yes | | The end value of the number. The maximum digit is 15. |
| remark | String | No | | The remark. |

- **Example Request:**

```
{
  "type": "extension",
  "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
  "startValue": "555555",
  "endValue": "777777",
  "remark": null,
  "group": "extension",
  "id": "695b2ee9c90249079cb626d73d168624"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "type": "extension",
    "enterprisId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "startValue": "555555",
    "endValue": "777777",
    "remark": null,
    "group": "extension",
    "id": "695b2ee9c90249079cb626d73d168624"
  },
  "error": null
}
```

3.2.6.4 Deleting the Number Resources

Request URL:

- POST: /numberResource/delete

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|------------------------------|
| ids | List<String> | Yes | | The IDs of number resources. |

- **Example Request:**

```
{
  "ids":[
    "695b2ee9c90249079cb626d73d168624"
  ]
}
```

Example of Successful Response:

```
{
  "ret":0,
  "data":null,
  "error":null
}
```

3.2.6.5 Obtaining the Number Resources by Type

Request URL:

- POST: /numberResource/getByTypes

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------------|----------|--------|------------------------------|
| types | List<String> | No | | The type of number resource. |

- **Example Request:**

```
{
  "types": [
    "conference",
    "conference_vmr"
  ]
}
```

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
    {
      "type": "conference", //The type of number resource
      "group": [ //The number segment
        {
          "startValue": "20000",
          "endValue": "89999"
        }
      ]
    },
    {
      "type": "conference_vmr",
      "group": [
        {
          "startValue": "800000",
          "endValue": "900000"
        }
      ]
    }
  ],
  "error": null
}
```

3.3 Conference Control

The description of the path parameter at the conference control interface:

- {controlId}: if you join a conference, you will get a controlId which is only valid during a specific period, and if you use the same account to join the same conference, you get the same controlId (unless the controlId is invalid).
- {staffId}: the staffId of the user is the same as the staffId used to join a conference.
- {entity}: the entity of the user present at the conference. During the conference, every user gets a unique entity that can be obtained through the user information. The entity in the path is the same as the one in the body parameter in some requests.
- In Section [3.3.11 Examples of Calling the Common Conference Control Interface](#), we list some examples of how to call the interface of conference control.

3.3.1 Operations on Joining Conferences

3.3.1.1 Joining Conferences

- Note: after you join a conference, the operations on the conference participants or the conference status might relate to obtaining the conference information, for more information, see Section [3.3.2 Operations on the Conference Information](#).

Request URL:

- POST: /conference/control/join

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------|--------|----------|--------|----------------------------------|
| staffId | String | Yes | | The staffId of the user account. |
| conferenceNumber | String | Yes | | The conference number. |
| conferencePassword | String | No | | The PIN code of the conference. |

- **Example Request:**

```
{
  "staffId" : "c78b4c59b777463c923e657ce25dba7c", //The staffId of the user account. In some interfaces, the input
  parameter might contains uid, whose value is the same as the value of staffId.
  "conferenceNumber" : "73952",
  "conferencePassword" : "605956"
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "ctrlld": "b739875589932a147d90fc056211a152" //The ID of conference control
  },
  "error": null
}
```

- After the client succeeds in joining a conference, the system will return a unique ctrlld to the client when the client requests to control the conference. This ctrlld is the {ctrlld} in the request path.
- **Description of ctrlld being invalid:** if you use the obtained ctrlld to call an interface, but Unknown Control ID is returned, it means that this ctrlld was invalid. The reasons for ctrlld being invalid are as below:
 - ctrlld is inactive in a long time;
 - Other users end the conference;
 - In VMRs, the participants leaving the conference might cause the conference control disconnected;
 - Network issue might cause the conference control disconnected (here, the disconnection is the disconnection from the internal server);
- Messages about the above disconnection will be sent to your YMS if you subscribe to the interface of conference information, for more information, see Section [3.3.2.11 Subscribing to the Conference Information](#).

3.3.1.2 Ending Conferences

Request URL:

- POST: /conference/control/{ctrlld}/leave

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--------------------------------------|
| endNow | Boolean | No | | The marker of ending the conference. |

- **Example Request:**

```
{
  "endNow": false
}
```

Note:

1. For the Meet Now conference and VMR:

No matter the value of endNow is true or false, the conference will end immediately, all participants leave the conference, and anyone cannot join the conference later.

2. For the scheduled conference:

- If the endNow is true, all participants leave the conference.
 - if you end the conference before the conference start time, the conference still exists and participants can join the conference again.
 - if you end the conference after the conference start time, the conference will be deleted and anyone cannot join the conference.
- If the endNow is false, all participants leave the conference.
 - if you end the conference before the conference end time, the conference still exists and participants can join the conference again.
 - if you end the conference after the conference end time, the conference ends and anyone cannot join the conference later.

3. If no parameter is carried in the request, it means that the user who controls the conference leaves the conference alone, and the controlId is valid.

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "error": null
}
```

3.3.1.3 Creating Meet Now Conferences

Request URL:

- POST: /conference/control/create/{staffId}

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|--|
| subject | String | Yes | | The conference subject. |
| users | Array | No | | The invited participants. If you pass the parameter, after the conference begins, they are invited to join the conference automatically. |
| request-uri | string | Yes | | The user uri. |
| uid | string | No | | The user staffId. |
| type | string | Yes | | The invitation type. |
| privateData | Object | No | | The private data which is transmitted by JSON. |

- **Example Request:**

```
{
  "subject" : "Conference13332", //It is not required to pass. It defaults to XX's video conference, XX is the name of the
  conference organizer, for example, Mary's video conference
  "users" : [
    {
      "requestUri" : "xxxxxx", /*The request-uri of the invited user, the description of request-uri format is as below:
      For SIP and Lync user, it is 'sip:username@domain'
      For H.323 user, it is 'h.323:username@domain'
      For IP call user, it is 'sip:10.86.0.19'
      For inviting the user account, it is the same as uid
      */
      "uid" : "xxxxxx", //The uid of the invited user, which is the same as the user staffId. When it is not null, it means
      the participant is invited by the account number. If the participant is not invited by account, the uid is not required to pass
      "type" : "audio-video" //The invitation type, one of audio, video, or audio-video
    },
  ],
  "privateData" : { //The private data which is transmitted by JSON format
    "selfDataA" : 'dataA',
    "selfDataB" : 'dataB'
  }
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "ctrlId": "b739875589932a147d90fc056211a152", //If your request does not contain users (parameter), the user
    would not join the conference automatically, and he needs the conference ID returned by the server to join the conference
    "conferenceNumber" : "73952", //The ID of the created conference
    "conferencePassword" : "605956" //The PIN code of the created conference. If you do not set one, there is
    no PIN code
  }
  "error": null
}
```

3.3.1.4 Keeping the Conference ControlID Valid

Request URL:

- POST: /conference/control/{ctrlId}

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

Note:

- The conference controllID is valid within 50 minutes.
- Using the controllID to call any interface will refresh the valid time.
- If you want to keep the controllID valid in a long time, you need to manually call this interface to keep it valid.

3.3.2 Operations on the Conference Information

3.3.2.1 Obtaining the Conference Information

You can use the interface in this section to obtain all the conference information, you can also use the interfaces of other sections to obtain the specific conference information.

Request URL:

- GET: /conference/control/{controllId}/info

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "conference-info": {
      "@entity": "NzM5NTI=", //The conference entity
      "@plan-id": "3e01469363344e0a8d3614054ae4fb07", //The conference plan-id
      "@record-id": "02dd9b892ac747bfa35ca5061d65d598", //The conference record-id
      "@version": 25, //The version number of the current conference information
      "conference-description": {
        "subject": "api",
        "start-time": "2018-07-30 11:00:06",
        "banner": {
          "enabled": false, //Enable the banner or not
          "display-text": "adsdfs", //The banner text
          "position": "top" //The display position of the banner, one of top, medium, or bottom
        },
        "default-rtmp": {
          "enabled": false, //Enable the RTMP or not
          "display-text": "custom text", //The display name of RTMP
          "mcu-session-type": "AVD", //The media type of the stream, one of Audio, Video, or Data. You can make a
          free combination of the media types, for example, AV is the combination of the audio and the video
          "max-video-fs": "1080P", //The resolution of the stream, for example, 1080P, 720P, 540p, or 360P. Note that
          1080P is only available to forwarding mode
          "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPicture, or

```


Exclusive

```

    "web-share-url": "http://10.200.112.81/livestream?
planId=7f9be890dbf84e05a50c4468bb56ea52&enterId=f4a4a4ee02ac4bb8875bbd08e03d4de0" //The address for
sharing RTMP Live broadcast
  },
  "profile": "demonstrator", //The conference mode, one of default (the discussion mode), demonstrator (the
training mode), telepresence (the telepresence mode)
  "record-id": "02dd9b892ac747bfa35ca5061d65d598", //The conference record-id
  "conf-uris": { //The URIs of the conference channel can be made up of multiple entries, with each entry
containing a channel URL, for example, the audio-video channel
    "entry": [
      {
        "@entity": "focus", //When it is focus, it is the controll channel
        "uri": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:focus:id:73952", // The address of
the control channel
        "display-text": "focus", //The display name of the control channel
        "purpose": "focus"
      },
      {
        "@entity": "audio-video", //When it is audio-video, it is the media channel of audio and video
        "uri": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:audio-video:id:73952", // The
address of the media channel
        "display-text": "audio-video", //The display name of the media channel
        "purpose": "audio-video"
      },
      {
        "@entity": "applicationsharing", //When it is applicationsharing, it is the content channel
        "uri": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:applicationsharing:id:73952",
// The address of the content channel
        "display-text": "applicationsharing", //The display name of the content channel
        "purpose": "applicationsharing"
      }
    ]
  },
  "organizer": { //The information of the conference organizer
    "display-text": "9100", //The display name of the conference organizer
    "uid": "c78b4c59b777463c923e657ce25dba7c", //The user uid, also known as the staffid
    "username": "9100", //The username
    "realm": "10.86.0.220.xip.io" //The user realm
  },
  "conference-id": "73952",
  "conference-number": "73952",
  "conference-type": "VGCP", /*The conference type, one of VMN, VGCP, or VGCM
VMN: the Meet Now conference
VGCP: the conference created by the user, that is, the scheduled conference
VGCM: the conference held in VMR which is created by the administrator from the administrator interface
*/
  "conference-number-type": "recurrence", //The conference type, one of meetnow, recurrence, or vmr
  "book-start-time": "2018-07-30 11:00:00", //The start time of the scheduled conference
  "book-expiry-time": "2018-08-31 11:30:00", //The end time of the scheduled conference
  "presenter-pin": "605956", //The PIN code of the conference moderator, the person who uses this PIN code to
join the conference is the moderator

  "attendee-pin": "605956", //The PIN code of the conference participant. The person who uses this PIN code to

```

join the conference is the conference participant. When the attendee-pin is the same as the presenter-pin, the person who joins the conference is the participant

```

    "maximum-user-count": 3000, //The number of participants that this conference can contain
    "admission-policy": "anonymous",
    /*The conference is locked or not
    When the value is anonymous, the conference is not locked and anyone can join the conference
    When the value is closedAuthenticated or openAuthenticated, the conference is locked and only a part of
    participants can join the conference
    closedAuthenticated: the moderator and the invited person can join the conference
    openAuthenticated: the person in the same federation or domain with the organizer can join the conference

    */
    "lobby-capable": false, //After joining the conference, if the participant finds himself on hold, you can check this
    configuration. When it is true, the participant is in the lobby. Otherwise, the participant leaves the conference
    "share-permission": {
        "enable": true, // Enable the content-sharing privilege or not
        "presenter-share": true, //When it is true, the moderator has the privilege to share content, otherwise, he
    does not
        "demonstrator-share": true, //When it is true, the lecturer has the privilege to share content, otherwise, he
    does not
        "attendee-share": true // When it is true, the guest has the privilege to share content, otherwise, he does
    not
    },
    "attendee-by-pass": true, //It means whether or not the participants not invited by the moderators can join the
    conference directly
    "autopromote": 0, /* Who can be the moderator when he joins the conference, see below:
    1) None:0, the moderator is specified by the conference organizer
    2) Everyone: 2147483648, the default value, converting into binary is 0x80000000(bit 31)
    3)Company(in the same federation or domain): 32768 converting into binary is 0x00008000(bit 15)
    */
    "server-mode": 13, //The conference mode
    "interactive-broadcast-enabled": false, //Enable the feature of the broadcasting interactive or not. When it is true,
    it is enabled with the moderators as the interactive parties and other participants as the broadcasting parties. It defaults to
    false
    "enterprise-id": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "video-enabled": true, // Video is enabled or not. The default value is true, and when it is false, it is an audio-only
    conference.
    "ipcall-enabled": true, //It means whether or not joining the conference via IP call is allowed (excepting for
    inviting the participants)
    "webrtc-enabled": true, // It means whether or not joining the conference via WebRTC is allowed
    "record-server-type": "third-party", // The type of the recording server, one of third-party and ylrecord. If the
    administrator does not configure any recording service, it is displayed as third-party
    "record-privilege": "organizer", /* The recording privilege, deciding who can record the conference, there are
    three values:
    organizer, only the conference organizer
    presenter, the conference organizer and the conference moderators
    attendee, the conference participants */
    "auto-recording-enabled": false, // Enable the feature of auto-recording or not. If it is true, when the
    conference begins, the conference will be recorded automatically. If it is false, you need to record the conference
    manually
    "call-out-band": 1024 //The maximum call bandwidth set in this conference. If this parameter is not
    returned, it is not supported by the server
    },

```

```

"conference-state": {
  "active": true, //The conference status, if it is true, it is active
  "locked": false, //The conference is locked or not. If it is true, the conference is locked, otherwise, it is unlocked
  "loop-volume-state": "close", // Enable the audio test or not, one of close or open
  "applicationsharer": { //The information of the shared content
    "@state": "full", //The updating status of the data
    "user": [
      {
        "@entity": "01ceee7db5cc487085356acc99604a9b", //The entity of the content-sharing participant
        "@state": "full",
        "display-text": 9100 //The name of the content-sharing participant
      }
    ]
  },
  "roll-call-status": "finish", // The status of the roll call, one of finish, pending, ready, or on-hold
  "@state": "partial" //The updating status of the data
},

```

```

"users": {
  "@state": "full", //The updating status of the data
  "@participant-count": 1, // The number of participants
  "@broadcast-user-count": 0, // The number of the broadcasting parties
  "@interactive-user-count": 1, // The number of the interactive parties
  "user": [
    {
      "@entity": "ce6f9a3db5424fe6d32790df47d4b85c", //The entity of the current participant, equals to the user

```

uid. When you call the interface, the entity parameter you need is this parameter

```

      "@state": "full", //The updating status of the data
      "display-text": "123", //The display name
      "uid": "bbf8c2dc49b8fdf2adfa2f3bd3d843r", // The uid of the current participant, corresponds to the staffid.

```

Both uid and entity are used for identifying the user. When the interface requires entity and uid, you only need to pass one of them. Note that third-party does not have uid

```

      "protocol": "SIP", //The protocol used for joining the conference, one of SIP, H323, RTMP, or RTSP
      "medium-server-type": "IPCALL", //The medium type
      "ip": "10.86.5.141", //The user IP
      "phone": "unauth-web-client", //The number used by the user to join the conference
      "request-uri": "SIP:9001@10.200.112.87.xip.io",
      "user-agent": "Yealink SIP-WEB 1.2.4 (Chrome 69.0)", //The user agent. If the value contains Yealink SIP-

```

WEB, it is a WebRTC endpoint

"roles": { /*It can support multiple entries, with different meanings. According to the entity attribute, the conference participants can be divided into the following:

1) when entity=permission, it refers to the roles of the participants, one of the organizer (also displayed as the moderator in the UI), the presenter, the attendee, or the castviewer

2) when entity=demostate, it refers to the role of lecturer, which is used to indicate whether or not the participant is speaking in the exclusive layout or the presentation layout

It can be demonstrator or audience

3) when entity=presenter-demostate, it refers to the role of speaker viewed by the moderator in the layout of training mode conference */

```

      "entry": [
        {
          "#text": "attendee", // presenter/attendee/organizer
          "@entity": "permission"
        },
      ],
    {

```

```

        "#text": "audience", //demonstrator/audience
        "@entity": "demostate"
    },
    {
        "#text": "audience", //demonstrator/audience
        "@entity": "presenter-demostate"
    }
]
},
"endpoint": [ //The information of the channel created by the user, one of focus, audio-video,
applicationsharing, or chat. For example, if the information of the channel is applicationsharing, it means that the user is
sharing content or receiving content
{
    "@entity": "7d6ba76d-d588-c419-b38e-0645b63e5694", //The uuid of the endpoint. It is generated by
the server
    "@state": "full", //The updating status of the data
    "@session-type": "audio-video", //The channel type, one of focus, audio-video, chat, applicationsharing,
AV-S1 (telepresence devices), and AV-S2 (telepresence devices)
    "status": "connected",
    "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of
dialed-in or dialed-out
    "joining-info": {
        "when": "2018-07-30 12:41:15", //The time when the participant joins the conference
    },
    "rtsp-url": "rtsp://numax:numax@211.162.122.83:8554/live/2", // RTSP URL
    "mcu-call-id": "ce6f9a3db5424fe6d32790df47d4b85c", //The MCU call ID of the corresponding channel
    "media": [ //The media information
        {
            "@id": 1,
            "type": "audio", //The media type, which is the same as the media type in SDP
            "label": "main-audio", //The media label, one of main-audio, main-video, applicationsharing, or fecc
(the controllable camera)
            "status": "recvonly", //It means the media direction, one of sendrecv, sendonly, recvonly, or inactive
            "media-ingress-filter": { //It specifies the filter value for the media in the direction from the endpoint
to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint, and
unblocking is that the participant is applying for speaking
                "#text": "block", //One of block, unblock or unblocking
                "@blockby": "server" //Operated by the server or by the client
            },
            "media-egress-filter": { //It specifies the filter value for the media in the direction from the MCU to
the endpoint. block is blocking the media from the MCU and unblock is unblocking the media from the MCU
                "#text": "unblock", //One of block or unblock
            }
        },
        {
            "@id": 2,
            "type": "video", //The video information
            "label": "main-video", //The label name of the video
            "status": "recvonly", //It means the media direction, one of sendrecv, sendonly, recvonly, or
inactive
            "media-ingress-filter": { //The same as the audio information
                "#text": "block", //One of block, unblock, or unblocking
                "@blockby": "server" //Operated by the server or by the client
            }
        }
    ]
}

```

```

    },
    "media-egress-filter": { //The same as the audio information
      "#text": "unblock", //One of block, unblock, or unblocking
    }
  },
  {
    "@id": 4,
    "type": "application", //The media type
    "label": "fecc", //The camera label, which means that the user has a controllable camera,
    and you can call the interface of controlling cameras to control his camera
    "status": "sendrecv" //It means the media direction, one of sendrecv, sendonly, recvonly, or
    inactive
  }
]
},
{
  "@entity": "52d59641-00a1-aa08-6bdd-bc43a66d2ec0", //The information of the control channel, the
  same as the media channel
  "@state": "full", //The updating status of the data
  "@session-type": "focus", //The channel type, one of focus, audio-video, chat, applicationsharing, AV-
  S1 (telepresence devices), or AV-S2 (telepresence devices)
  "status": "connected",
  "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of dialed-
  in or dialed-out
  "joining-info": {
    "when": "2018-07-30 12:41:16" //The time when the participant joins the conference
  }
},
{
  "@entity": "a8ccbce7-0512-41d6-ef2f-4dc70800023a", //The information of the content channel, the
  same as the media channel
  "@session-type": "applicationsharing", //The channel type, one of focus, audio-video, chat,
  applicationsharing, AV-S1 (telepresence devices), or AV-S2 (telepresence devices)
  "@state": "partial", //The updating status of the data
  "status": "connected",
  "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of
  dialed-in or dialed-out
  "joining-info": {
    "when": "2018-12-13 10:04:40" //The time when the participant joins the conference
  },
  "mcu-call-id": "7cc178b0aec86f125ce211f11bad1678",
  "media": [
    {
      "@id": 3,
      "type": "video", //The media type
      "label": "applicationsharing", //The label name of the content channel
      "status": "sendonly" //The direction of the shared content, one of sendonly or recvonly
    }
  ]
}
]
}
]

```

```

    },
    "record-users": { //Except for the information that is unique to the recording users, other information is the same as
users
        "@state": "full", //The updating status of the data
        "@participant-count": 1, //The number of recording users
        "user": [
            {
                "@entity": "OCtaeedjlGTBQGUiKYL83wLsapDEWff", //The entity of the recording user
                "@state": "full", //The updating status of the data
                "display-text": "Recording", //The recording name
                "record-type": "default", //The recording type
                "record-status": "recording", //The recording status
                "record-last-stop-duration": 0, //The duration of the last time you pause the recording(seconds)
                "record-last-start-time": "2018-08-09 07:28:54", //The time at the last time you start the recording
                "uid": "", //The uid of the recording user
                "protocol": "",
                "ip": "",
                "phone": "",
                "user-agent": "",
                "roles": { /* The same as the user information

```

It can support multiple entries, with different meanings. According to the entity attribute, the conference participants can be divided into the following:

- 1) when entity=permission, it refers to the roles of the participants, one of the organizer (also displayed as the moderator in the UI), the presenter, the attendee, or the castviewer
- 2) when entity=demostate, it refers to the role of lecturer, which is used to indicate whether or not the participant is speaking in the exclusive layout or the presentation layout

It can be demonstrator or audience

- 3) when entity=presenter-demostate, it refers to the role of speaker viewed by the moderator in the layout of training mode conference */

```

        "entry": [
            {
                "#text": "attendee", //presenter/attendee/organizer
                "@entity": "permission"
            },
            {
                "#text": "audience", //demonstrator/audience
                "@entity": "demostate"
            }
        ]
    },
    "endpoint": [ //The endpoint information of the recording users are the same as users
        {
            "@entity": "5d166325-2692-b51c-4cbc-6d8b9bee1978", //The uuid of the endpoint. It is generated by
the server
            "@state": "full", //The updating status of the data
            "@session-type": "audio-video", //The channel type, one of focus, audio-video, chat,
applicationsharing, AV-S1 (telepresence devices), or AV-S2 (telepresence devices)
            "status": "connected",
            "joining-method": "dialed-out", //The method that the participant uses to join the conference, one of
dialed-in or dialed-out
            "joining-info": {
                "when": "2018-08-09 07:28:54" //The time when the participant joins the conference
            }
        },

```

```

"mcu-call-id": "OCtaeedjlGTBQGUiKYL83wLsapDEWff", //The MCU Call ID of the channel
"media": [ //The media information
  {
    "@id": 1,
    "type": "audio", //The media type
    "label": "main-audio", //The media label, one of main-audio, ain-video, applicationsharing, or fecc
    "status": "recvonly", //The media direction, one of sendrecv, sendonly, recvonly, or inactive
    "media-ingress-filter": { //It specifies the filter value for the media in the direction from the
endpoint to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint,
and unblocking is that the participant is applying for speaking
      "#text": "block", //One of block, unblock, or unblocking
      "@blockby": "server" //Operated by the server or the client
    }
  },
  {
    "@id": 2,
    "type": "video", //The video information
    "label": "main-video", //The label name of the video
    "status": "recvonly", //The media direction, one of sendrecv, sendonly, recvonly, or inactive
    "media-ingress-filter": { //The same as the audio information
      "#text": "unblock", //One of block, unblock, or unblocking
    }
  }
]
},
{
  "@entity": "ba8628f3-4b74-fcc8-a34e-0ad5c4405ec7", //The information of the control information, the
same as the media channel
  "@state": "full", //The updating status of the data
  "@session-type": "focus", //The channel type, one of focus, audio-video, chat, applicationsharing, AV-
S1 (telepresence devices), or AV-S2 (telepresence devices)
  "status": "connected",
  "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of
dialed-in or dialed-out
  "joining-info": {
    "when": "2018-08-09 07:28:54" //The time when the participant joins the conference
  }
}
]
},
{
  "rtmp-users": { //Except for the information that is unique to the RTMP users, other parts information is the same
as users
    "@state": "full", //The updating status of the data
    "@participant-count": 1, //The number of the RTMP users
    "user": [
      {
        "@entity": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca", //The entity of the RTMP user
        "@state": "full",
        "rtmp-type": "default",
        "rtmp-status": "connected",

        "rtmp-last-stop-duration": 0, //The duration of the last time you pause/stop the RTMP live broadcast

```

```

"rtmp-last-start-time": "2018-08-09 07:28:54", //The time at the last time you start/resume the RTMP live
broadcast
"mcu-session-type": "AVD", //The media type
"max-video-fs": "720P", //The resolution
"display-text": "",
"protocol": "RTMP",
"video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPicture, or
Exclusive
"roles": { // The same as the user information
  "entry": [
    {
      "#text": "attendee", //presenter/attendee/organizer
      "@entity": "permission"
    },
    {
      "#text": "audience", //demonstrator/audience
      "@entity": "demostate"
    }
  ]
},
"endpoint": [ //The same as the user information
  {
    "@entity": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_360P", //The entity of the
endpoint. It is generated by the server
    "@state": "full", //The updating status of the data
    "@session-type": "audio-video", //The channel type, one of focus, audio-video, chat,
applicationsharing, AV-S1 (telepresence devices), or AV-S2 (telepresence devices)
    "status": "connected",
    "joining-method": "dialed-out", //The method that the participant uses to join the conference, one of
dialed-in or dialed-out
    "joining-info": {
      "when": "2018-08-09 07:28:48" //The time when the participant joins the conference
    },
    "mcu-call-id": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_720P", // The MCU Call
ID of the channel
    "mcu-session-type": "AVD", // The media type of the stream, one of Audio, Video, or Data(the shared
content). You can make a free combination of the media types, for example, AV is the combination of the audio and the
video
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/8c1d081bd309460eb097cf59dc69b8d5?
vhost=pushlive.yealinkvc.com&auth_key=1533799728260-0-0-997ac72e27ea07ff8a899b4a5e52da2d", //The URL of the
live stream
    "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPicture,
or Exclusive
    "max-video-fs": "360P" //The resolution of the stream, one of 1080P, 720P, 540P, or 360P. Note that
1080P is only available to forwarding mode
  },
  {
    "@entity": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_720P", //The uuid of the
endpoint. It is generated by the server
    "@state": "full", //The updating status of the data
    "@session-type": "audio-video", //The channel type, one of focus, audio-video, chat,
applicationsharing, AV-S1 (telepresence devices), or AV-S2 (telepresence devices)
    "status": "connected",

```



```

    "joining-method": "dialed-out", //The method that the participant uses to join the conference, one of
    dialed-in or dialed-out
    "joining-info": {
        "when": "2018-08-09 07:28:48" //The time when the participant joins the conference
    },
    "mcu-call-id": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_720P", // The MCU Call
    ID of the channel
    "mcu-session-type": "AVD", // The media type of the stream, one of Audio, Video, or Data(the shared
    content). You can make a free combination of the media types, for example, AV is the combination of the audio and the
    video
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/h8c1d081bd309460eb097cf59dc69b8d5?
    vhost=pushlive.yealinkvc.com&auth_key=1533799728259-0-0-883d65226c902770d37117ea06b758cf", //The URL of the
    live stream
    "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation,
    PictureInPicture, or Exclusive
    "max-video-fs": "720P" //The resolution of the stream, one of 1080P, 720P, 540P, or 360P. Note that
    1080P is only available to forwarding mode
    }
    ]
    },
    "conference-view": {
        "@state": "full",
        "subtitle": "open", //Display the live subtitle or not, one of open or close
        "voice-prompt-enable": true, //The details of the participants
        "face-frame-color": "green", //The frame color of the face recognition, one of green or lucency
        "transcript": { //Parameters of the feature of speech-to-text
            "enable": false, //Enable the feature of speech-to-text, one of start or stop
            "subtitle": "close", //Display the live subtitle, one of open or close. This parameter is the same as the
            parameter subtitle above. When the parameters you obtain contain two subtitles, you can select one of them
            "subtitle-font-size": "default", //The font size of the subtitle, one of default, medium, or big
            "subtitle-site-name": false, //Display the name of the venue which the speaking participant belongs to
            or not
            "summary-url": "http://10.71.2.57:9884" //The server address for the third party to receive the result of
            speech-to-text. It is a kind of subscription information, sent by Http Post and in JSON format. For more information about
            the data format of speech-to-text, see Section 3.3.5.1
        },
        "entity-view": [ //The detailed information of a channel, supporting partial notification mechanism
            {
                "@entity": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:focus:id:73952", //You can identity
                the layout parameter belonging to which channel via this parameter. Generally, the media channel set in the layout is
                audio-video
                "@state": "full" //The updating status of the data
            },
            {
                "@entity": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:audio-video:id:73952", //You can
                identity the layout parameter belonging to which channel via this parameter. Generally, the media channel set in the
                layout is audio-video
                "@state": "full",
                "entity-state": {

                    "video-layout": "Equality", //The video layout, one of Equality, Presentation, SpeechExcitation, or

```

Exclusive

```

    "video-max-view": 8, //The maximum number of the video images in the layout
    "video-presenter-layout": "Equality", //The video layout viewed by moderators, one of Equality,
SpeechExcitation, or Exclusive (Only when the video-layout is Presentation does this configuration take effect)
    "video-presenter-max-view": 8, //The largest video image in the moderator layout
    "video-round-number": 2, //The number of video images in the video carousel
    "video-round-interval": 15, //The interval of the video carousel
    "video-big-round": false, //Enable the video carousel with large video images or not
    "video-speech-ex-sensitivity": 4, //The interval of voice-activated speaker
    "video-round-enabled": true, //Enable the video carousel or not
    "video-speech-ex-enabled": true, //Enable the voice-activated speaker or not
    "video-data-mix-enabled": false, //Mix the shared content with the video or not
    "hide-osd-sitename": false, //Hide the site name or not
    "hide-osd-sitestatus": true, //Hide the site status or not
    "osd-position": "BottomLeft", //The display position of the site name, one of TopLeft, TopMiddle,
BottomLeft, or BottomMiddle
    "video-big-round": false, //Enable the video carousel with large video images or not
    "video-big-position": "medium", //The display position of the large video image in the 2+N layout,
one of medium or top
    "osd-sitename-font-size": "default", //The font size of the site name, one of default, medium, or big
    "osd-sitename-font-color": "white", //The color of the site name, one of white, yellow, blue, red, or
black
    "voice-prompt-enable": false, // Enable voice prompt or not
    "show-electronic-nameplate": false, //Enable electric nameplate or not
    "show-speaker-details": false, //Enable details of speaker or not
    "subtitle": false, //Display the live subtitle or not
    "self-view-enabled": false, //Display the local video image or not
    "face-frame-color": "green", //The frame color of the face recognition, one of green or lucency
    "transcript": { //Parameters of the feature of speech-to-text
        "enable": false, //Enable the feature of speech-to-text, one of start or stop
        "subtitle": "close", //Display the live subtitle, one of open or close. This parameter is the
same as the parameter subtitle above. When the parameters you obtain contain two subtitles, you can select one of them
        "subtitle-font-size": "default", //The font size of the subtitle, one of default, medium, or big
        "subtitle-site-name": false, //Display the name of the venue which the speaking participant
belongs to or not
        "summary-url": "http://10.71.2.57" //The server address for the third party to receive the result of
speech-to-text. It is a kind of subscription information, sent by Http Post and in JSON format. For more information about
the data format of speech-to-text, see Section 3.3.5.1
    },
    "mediaFiltersRules": { //The media filter rule, it can have multiple rules
        "initialFilters": [
            {
                "role": "default", //The participant whom this rule applies to, one of default or attendee
                "ingressFilter": "unblock", //It specifies the filter value for the media in the direction from the
endpoint to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint
                "egressFilter": "unblock" //It specifies the filter value for the media in the direction from the MCU
to the endpoint. block is blocking the media from the MCU and unblock is unblocking the media from the MCU
            },
            {
                "@entity": "attendee", //All conference participants
                "role": "attendee", //The participant whom this rule is applicable to, one of default or attendee

                "ingressFilter": "unblock" //It specifies the filter value for the media in the direction from the

```

endpoint to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint

```

    }
  ]
},
"video-broadcast-layout": { //The broadcasting layout
  "@state": "full",
  "video-broadcast-layout-pattern": [ //The template of the broadcasting layout
    {
      "@id": 204, //The template ID of the broadcasting layout
      "@state": "full",
      "enabled": false, //Enable the broadcasting layout or not
      "display-text": "",
      "video-round-enabled": true, //Enable the video carousel or not
      "video-speech-ex-enabled": false, //Enable the voice-activated speaker or not
      "video-layout": "Equality", //The layout used in the broadcasting layout
      "video-max-view": 16, //The maximum number of the video images in the layout, for example, it
is 5 in the layout of 1+4
      "video-big-view": 1, //The number of the large video images in the layout, for example, it is 2 in
TwoPlusN layout
      "video-round-number": 1, //The number of video images in the video carousel
      "video-big-round": false, // Enable the video carousel with large video images or not
      "video-big-position": "medium", //The display position of the 2+N layout, one of medium or top
      "source-users": "", //The users who are selected to be displayed in the broadcasting layout
      "target-users": "", //The users whom the broadcasting layout is applied to
      "appoint-users": "" //The users who are pinned in the video image
    }
  ]
}
},
{
  "@entity": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:applicationsharing:id:73952",
//You can identify the layout parameter belonging to which channel via this parameter. Generally, the media channel set in
the layout is audio-video
  "@state": "full" //The updating status of the data
}
],
},
"private-data": {} //The private data, it exists if supported by the server, otherwise, it does not exist
}
},
"errors": null
}

```

Note:

All conference information can be obtained in this interface. For the desired parameters, you can use the corresponding interfaces below.

3.3.2.2 Obtaining the Basic Information

Request URL:

- GET: /conference/control/{controlId}/info/base

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "@entity": "MjMzMDU=",
    "@plan-id": "39c17a5b7f464c8ea89e5afee6bf906b",
    "@record-id": "dc91bbf9e8f042c99583c867eb2d8fa7",
    "@version": 48//The version number of the conference information, it accumulates as the information changes or
updates
  },
  "error": null
}
```

3.3.2.3 Obtaining the Description Information**Request URL:**

- GET: /conference/control/{controlId}/info/desc

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "subject": "api",
    "start-time": "2018-07-30 11:00:06",
    "banner": {
      "enabled": false,           //Enable the banner or not
      "display-text": "adsdfs",   // The banner content
      "position": "top"           // Th display position of the banner, one of top, medium, or bottom
    },
    "default-rtmp": {
      "enabled": false, // Enable RTMP or not, it is enabled by default
      "display-text": "custom text", // The display name of RTMP
      "mcu-session-type": "AVD", //The media type of the stream, one of Audio, Video, or Data. You can
make a free combination of the media type, for example, AV is the combination of audio and the video
      "max-video-fs": "1080P", //The resolution of the stream, one of 720P, 360P, 540P, or 1080P. Note
that 1080P is only available to forwarding mode
      "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue, or
Exclusive
      "web-share-url": "http://10.200.112.81/livestream?
planId=7f9be890dbf84e05a50c4468bb56ea52&enterId=f4a4a4ee02ac4bb8875bbd08e03d4de0" //The
address for sharing RTMP live broadcast
    },
  },
}
```

```

"profile": "demonstrator", //The conference mode, one of default (the discussion mode), demonstrator
(the training mode), or telepresence (the telepresence mode)
"record-id": "02dd9b892ac747bfa35ca51d65d598", // The conference record-id
"conf-uris": { //The URIs of the conference channel, it can be made up of multiple entries, and
each entry can contain a channel URI, for example, the audio-video channel
  "entry": [
    {
      "@entity": "focus", //The media channel of control
      "uri": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:focus:id:73952", //The address of the
control channel
      "display-text": "focus", // The display name of the control channel
      "purpose": "focus"
    },
    {
      "@entity": "audio-video", //The media channel of audio-video
      "uri": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:audio-video:id:73952", //The address of
the audio-video channel
      "display-text": "audio-video", //The display name of audio-video channel
      "purpose": "audio-video"
    },
    {
      "@entity": "applicationsharing", //The media channel of content
      "uri": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:applicationsharing:id:73952", // The
address of the content channel
      "display-text": "applicationsharing", //The display name of the content channel

      "purpose": "applicationsharing"
    }
  ]
},
"organizer": { // The information of the conference organizer
  "display-text": "9100", // The display name
  "uid": "c78b4c59b777463c923e657ce25dba7c", // The user uid, also the staffid
  "username": "9100", // The username
  "realm": "10.86.0.220.xip.io" // The user realm
},
"conference-id": "73952", // The conference ID
"conference-number": "73952", // The conference number
"conference-type": "VGCP", /*The conference type, one of VMN, VGCP, or VGCM
VMN: the Meet Now conference
VGCP: the conference created by the user, that is, the scheduled conference
VGCM: the conference held in VMR which is created by the administrator from the administrator interface
*/
"conference-number-type": "recurrence", //The conference type, one of meetnow, recurrence, or VMR
"book-start-time": "2018-07-30 11:00:00", //The start time of the scheduled conference
"book-expiry-time": "2018-08-31 11:30:00", //The end time of the scheduled conference
"presenter-pin": "605956", // The PIN code of the conference moderator, the person who uses this PIN code to
join the conference is the moderator
"attendee-pin": "605956", //The PIN code of the conference participant, the person who uses this PIN code to
join the conference is the conference participant
"maximum-user-count": 3000, //The number of participants that this conference can contain
"admission-policy": "anonymous", /*The conference is locked or not

```

When the value is anonymous, the conference is not locked and anyone can join the conference

```

        When the value is closedAuthenticated or openAuthenticated, the conference is locked and only a part of
        participants can join the conference
        closedAuthenticated: the moderator and the invited person can join the conference
        openAuthenticated: the person in the same federation or domain with the organizer can join the conference
    */
    "lobby-capable": false,      //After joining the conference, if the participant finds himself on hold, you can check this
    configuration. When it is true, the participant is in the lobby. Otherwise, the participant leaves the conference

    "share-permission": {
        "enable": true,          // Enable content-sharing privilege or not
        "presenter-share": true, // When it is true, the moderator has the privilege to share content, otherwise, he does
    not
        "demonstrator-share": true, // When it is true, the speaker has the privilege to share content, otherwise, he does
    not
        "attendee-share": true    // When it is true, the participant has the privilege to share content, otherwise, he does
    not
    },
    "attendee-by-pass": true,     //It means whether or not the participants not invited by the moderators can join the
    conference directly
    "autopromote": 0,            /* Who can be the moderator when he joins
    the conference, see below:
        1) None:0, the moderator is specified by the conference organizer
        2) Everyone: 2147483648, the default value, converting into binary is 0x80000000(bit 31)
        3)Company(in the same federation or domain): 32768 converting into binary is 0x00008000(bit 15)
    */

    "server-mode": 13,
    "interactive-broadcast-enabled": false, //Enable the broadcasting interactive or not. If the value is true, it is enabled
    with the moderators as the interactive parties and other participants as the broadcasting parties. It defaults to false
    "enterprise-id": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "video-enabled": true, //If it is true, is is an audio-video conference, otherwise, it is an audio-only conference
    "ipcall-enabled": true,      //It means whether or not joining the conference via IP call is allowed
    (excepting for inviting the participants)
    "webrtc-enabled": true,      //It means whether or not joining the conference via WebRTC is allowed
    "record-server-type": "third-party", //The type of the recording server, one of third-party and yrecord. If the
    administrator does not configure any recording service, it is displayed as third-party
    "record-privilege": "organizer",
    /* The recording privilege, deciding who can record the conference, there are three values:
    organizer: only the conference organizer
    presenter: the conference organizer and the conference moderators
    attendee: all the conference participants */
    "auto-recording-enabled": "false", //Enable the feature of auto-recording or not. If it is true, when the conference
    begins, the conference will be recorded automatically. If it is false, you need to record the conference manually
    },
    "errors": null
}

```

3.3.2.4 Obtaining the Status Information

Request URL:

- GET: /conference/control/{controlId}/info/state

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "active": true, //The conference status, if it is true, the conference is active
    "locked": false, //The conference is locked or not. If it is true, the conference is locked, otherwise, it is unlocked
    "loop-volume-state": "close", //The status of the audio test, one of close or open
    "applicationsharer": {
      "@state": "full", //The updating status of the data
      "user": [
        {
          "@entity": "01ceee7db5cc487085356acc99604a9b", // The entity of the content-sharing participant
          "@state": "full",
          "display-text": 9100 //The name of the content-sharing participant
        }
      ]
    },
    "roll-call-status": "finish", //The status of the roll call, see Operations on the Roll Call in Section 3.3.7
    "@state": "partial" // The updating status of the data
  },
  "error": null
}
```

3.3.2.5 Obtaining the User Information**Request URL:**

- GET: /conference/control/{controlId}/info/user

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "users": {
      "@state": "full",
      "@participant-count": 1, //The number of users
      "@broadcast-user-count": 0, // The number of broadcasting parties
      "@interactive-user-count": 1, // The number of interactive parties
      "user": [
        {
          "@entity": "bbf8c2dc49b8fdf2adfca2f3bd3d843e", //The entity of the current participant, equals to the user
          uid. When you call the interface, the entity parameter you need is this parameter
          "@state": "full", // The updating status of the data
          "display-text": "123", // The display name
          "uid": "bbf8c2dc49b8fdf2adfca2f3bd3d843r", //The uid the current participant, corresponds to the staffId.
        }
      ]
    }
  }
}
```

Both uid and entity are used for identifying the user. When the interface requires entity and uid, you only need to pass one of them. Note that third-party does not have uid

```
"protocol": "SIP", // The protocol used for joining the conference, one of SIP, H323, RTSP or RTMP
"medium-server-type": "", //The medium type
"ip": "10.86.5.141", //The user IP
"phone": "unauth-web-client", // The number used by the user to join the conference
"request-uri": "SIP:9001@10.200.112.87.xip.io", // The account uri
"user-agent": "Yealink SIP-WEB 1.2.4 (Chrome 69.0)", //The user agent
"roles": { /*
```

It can support multiple entries, with different meanings. According to the entity attribute, the conference participants can be divided into the following:

1) when entity=permission, it refers to the roles of the participants, one of the organizer (also displayed as the moderator in the UI), the presenter, the attendee, or the castviewer

2) when entity=demostate, it refers to the role of lecturer, which is used to indicate whether or not the participant is speaking in the exclusive layout or the presentation layout

It can be demonstrator or audience

3) when entity=presenter-demostate, it refers to the role of speaker viewed by the moderator in the layout of training mode conference */

```
"entry": [
  {
    "#text": "attendee", // presenter/attendee/organizer
    "@entity": "permission"
  },
  {
    "#text": "audience", // demonstrator/audience
    "@entity": "demostate"
  },
  {
    "#text": "audience", // demonstrator/audience
    "@entity": "presenter-demostate"
  }
],
```

"endpoint": [//The information of the channel created by the user, one of focus, audio-video, applicationsharing, or chat. For example, when this parameter is applicationsharing, it refers to the content channel which is used by users to share contents or receive contents

```
{
  "@entity": "7d6ba76d-d588-c419-b38e-0645b63e5694", //The server generates this parameter and
  distributes a uuid to each endpoint
  "@state": "full", // The updating status of the data
  "@session-type": "audio-video", // The channel type of the endpoint, for example, one of focus, audio-
  video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
  "status": "connected",
  "joining-method": "dialed-in", // The method that the participant uses to join the conference, one of
  dialed-in or dialed-out
  "joining-info": {
    "when": "2018-07-30 12:41:15" // The time when the participant joins the conference
  },
  "rtsp-url": "rtsp://numax:numax@211.162.122.83:8554/live/2", // RTSP URL
  "mcu-call-id": "ce6f9a3db5424fe6d32790df47d4b85c", //The MCU Call ID of the channel
  "media": [ //The media information
    {
      "@id": 1,
```



```

        "type": "audio",          //It means the media type which is the same as the media type in SDP
        "label": "main-audio",    //The media label, one of main-audio, main-video, applicationsharing, or
fecc
        "status": "recvonly",     //The media direction, one of sendrecv, sendonly, recvonly, or inactive
        "media-ingress-filter": { //It specifies the filter value for the media in the direction from the endpoint
to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint, and
unblocking is that the participant is applying for speaking
            "#text": "block",      //One of block, unblock or unblocking
            "@blockby": "server"   //Operated by the server or by the client
        },
        "media-egress-filter": {  // It specifies the filter value for the media in the direction from the MCU to
the endpoint. block is blocking the media from the MCU and unblock is unblocking the media from the MCU
            "#text": "unblock",    //One of block, unblock, or unblocking
        }
    },
    {
        "@id": 2,
        "type": "video",          //The video information
        "label": "main-video",    // The label name of the main video
        "status": "recvonly",     //It means the media direction, one of sendrecv, sendonly, recvonly, or
inactive
        "media-ingress-filter": { //The same as the audio information
            "#text": "block",      // One of block, unblock, or unblocking
            "@blockby": "server"   //Operated by the server or by the client
        },
        "media-egress-filter": {
            "#text": "unblock",    //One of block, unblock, or unblocking
        }
    },
    {
        "@id": 4,
        "type": "application",    // The media type
        "label": "fecc",          // The camera label, which means that the user has a controllable camera,
and you can call the interface of controlling cameras to control his camera
        "status": "sendrecv"      //The media direction, one of sendrecv, sendonly, recvonly, or inactive
    }
]
},
{
    "@entity": "52d59641-00a1-aa08-6bdd-bc43a66d2ec0", //The information of the control channel, the
same as the media channel
    "@state": "full",          //The updating status of the data
    "@session-type": "focus",  //The channel type of the endpoint, for example, one of focus, audio-
video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
    "status": "connected",
    "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of dialed-
in or dialed-out
    "joining-info": {
        "when": "2018-07-30 12:41:16" //The time when the participant joins the conference
    }
},
{
    "@entity": "a8ccbce7-0512-41d6-ef2f-4dc70800023a", //The information of the content channel, the

```

same as the media channel

```

    "@session-type": "applicationsharing", //2. The channel type of the endpoint, for example, one of focus,
audio-video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
    "@state": "partial", //The updating status of the data
    "status": "connected",
    "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of
dialed-in or dialed-out
    "joining-info": {
        "when": "2018-12-13 10:04:40" //The time when the participant joins the conference
    },
    "mcu-call-id": "7cc178b0aec86f125ce211f11bad1678", //The MCU call ID
    "media": [
        {
            "@id": 3,
            "type": "video", //The media type
            "label": "applicationsharing", //The label name of the content channel
            "status": "sendonly" //The direction of the shared content, one of sendonly or recvonly
        }
    ]
}
]
}
],
},
"record-users": { // Except for the information that is unique to the recording users, other information
is the same as users
    "@state": "full", // The updating status of the data
    "@participant-count": 1, // The number of recording users
    "user": [
        {
            "@entity": "OCTaeedjIGTBQGUiKYL83wLsapDEWff", //The entity of the recording user
            "@state": "full", //The updating status of the data
            "display-text": "Recording", //The recording name
            "record-type": "default", //The recording type
            "record-status": "recording", //The recording status
            "record-last-stop-duration": 0, //The duration of the last time you pause the recording(seconds)
            "record-last-start-time": "2018-08-09 07:28:54", //The time at the last time you start the recording
            "uid": "", //The uid of the recording user
            "protocol": "",
            "ip": "",
            "phone": "",
            "user-agent": "",
            "roles": { /* The same as the user information
It can support multiple entries, with different meanings. According to the entity attribute, the conference participants can
be divided into the following:
1) when entity=permission, it refers to the roles of the participants, one of the organizer (also displayed as the
moderator in the UI), the presenter, the attendee, or the castviewer
2) when entity=demostate, it refers to the role of lecturer, which is used to indicate whether or not the participant is
speaking in the exclusive layout or the presentation layout. It can be demonstrator or audience
3) when entity=presenter-demostate, it refers to the role of speaker viewed by the moderator in the layout of training
mode conference
*/
            "entry": [

```

```

    {
      "#text": "attendee", // presenter/attendee/organizer
      "@entity": "permission"
    },
    {
      "#text": "audience", // demonstrator/audience
      "@entity": "demostate"
    }
  ]
},
"endpoint": [ //The same as the user information
  {
    "@entity": "5d166325-2692-b51c-4cbc-6d8b9bee1978", //The entity of the endpoint. It is generated by
the server
    "@state": "full", //The updating status of the data
    "@session-type": "audio-video", //2. The channel type of the endpoint, for example, one of focus, audio-
video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
    "status": "connected",
    "joining-method": "dialed-out", //The method that the participant uses to join the conference, one of
dialed-in or dialed-out
    "joining-info": {
      "when": "2018-08-09 07:28:54" ///The time when the participant joins the conference
    },
    "mcu-call-id": "OCtaeedjlGTBQGUiKYL83wLsapDEWff", //The MCU Call ID of the channel
    "media": [ //The media information
      {
        "@id": 1,
        "type": "audio", //The media type
        "label": "main-audio", //The media label, one of main-audio, ain-video, applicationsharing, or fecc
        "status": "recvonly", //The media direction, one of sendrecv, sendonly, recvonly, or inactive
        "media-ingress-filter": { //It specifies the filter value for the media in the direction from the endpoint
to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint, and
unblocking is that the participant is applying for speaking
          "#text": "block",
          "@blockby": "server" //Operated by the server or the client
        }
      },
      {
        "@id": 2,
        "type": "video", //The media type
        "label": "main-video", //The media label, one of main-audio, ain-video, applicationsharing, or fecc
        "status": "recvonly", //The media direction, one of sendrecv, sendonly, recvonly, or inactive
        "media-ingress-filter": { //It specifies the filter value for the media in the direction from the endpoint
to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint
          "#text": "unblock",
        }
      }
    ]
  },
  {
    "@entity": "ba8628f3-4b74-fcc8-a34e-0ad5c4405ec7", //The information of the control information, the
same as the media channel

    "@state": "full", //The updating status of the data

```

```

    "@session-type": "focus", //2. The channel type of the endpoint, for example, one of focus, audio-
    video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
    "status": "connected",
    "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of dialed-
    in or dialed-out
    "joining-info": {
        "when": "2018-08-09 07:28:54" //The time when the participant joins the conference
    }
    }
    ]
    },
    "rtmp-users": { //Except for the information that is unique to the RTMP users, other information is the same as
    users
        "@state": "full", //The updating status of the data
        "@participant-count": 1, //The number of the RTMP users
        "user": [
            {
                "@entity": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca", //The entity of the RTMP user
                "@state": "full",
                "rtmp-type": "default",
                "rtmp-status": "connected",
                "rtmp-last-stop-duration": 0, //The duration of the last time you pause/stop the RTMP live broadcast
                "rtmp-last-start-time": "2018-08-09 07:28:54", //The time at the last time you start/resume the RTMP live
                broadcast
                "mcu-session-type": "AVD", //The media type
                "max-video-fs": "720P", //The resolution
                "display-text": "",
                "protocol": "RTMP",
                "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue,
                Exclusive
                "roles": { // The same as the user information
                    "entry": [
                        {
                            "#text": "attendee", // presenter/attendee/organizer
                            "@entity": "permission"
                        },
                        {
                            "#text": "audience", // demonstrator/audience
                            "@entity": "demostate"
                        }
                    ]
                },
                ],
            },
            "endpoint": [ //The same as the user information
                {
                    "@entity": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_360P", //The uuid of the
                    endpoint. It is generated by the server
                    "@state": "full", //The updating status of the data
                    "@session-type": "audio-video", //The channel type, for example, focus or audio-video
                    "status": "connected",

                    "joining-method": "dialed-out", //The method that the participant uses to join the conference, one of

```

dialed-in or dialed-out

```

    "joining-info": {
      "when": "2018-08-09 07:28:48" //The time when the participant joins the conference
    },
    "mcu-call-id": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_720P", // The MCU Call ID
of the channel
    "mcu-session-type": "AVD", // The media type of the stream, one of Audio, Video, or Data(the shared
content). You can make a free combination of the media types, for example, AV is the combination of the audio and the
video
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/8c1d081bd309460eb097cf59dc69b8d5?
vhost=pushlive.yealinkvc.com&auth_key=1533799728260-0-0-997ac72e27ea07ff8a899b4a5e52da2d", //The URL of the
live stream
    "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue,
or Exclusive
    "max-video-fs": "360P" //The resolution of the stream, one of 1080P, 720P, 540P, or 360P. Note that
1080P is only available to forwarding mode
  },
  {
    "@entity": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_720P", //The uuid of the
endpoint. It is generated by the server
    "@state": "full", //The updating status of the data
    "@session-type": "audio-video", //2. The channel type of the endpoint, for example, one of focus,
audio-video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
    "status": "connected",
    "joining-method": "dialed-out", //The method that the participant uses to join the conference, one of
dialed-in or dialed-out
    "joining-info": {
      "when": "2018-08-09 07:28:48" //The time when the participant joins the conference
    },
    "mcu-call-id": "rtmp_e2810d10-186c-e82b-6d87-db34c927b9ca_audio-video_720P", // The MCU Call ID
of the channel
    "mcu-session-type": "AVD", //The media type of the stream, one of Audio, Video, or Data(the shared
content). You can make a free combination of the media types, for example, AV is the combination of the audio and the
video
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/h8c1d081bd309460eb097cf59dc69b8d5?
vhost=pushlive.yealinkvc.com&auth_key=1533799728259-0-0-883d65226c902770d37117ea06b758cf", //The URL of the
live stream
    "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue,
or Exclusive
    "max-video-fs": "720P" //The resolution of the stream, one of 1080P, 720P, 540P, or 360P.
Note that 1080P is only available to forwarding mode
  }
]
}
},
},
"errors": null
}

```

3.3.2.6 Obtaining the Layout Information

Request URL:

- GET: /conference/control/{controlId}/info/layout

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "@state": "full",
    "subtitle": "open",          //Display the live subtitle or not, one of open or close
    "voice-prompt-enable": true, //The details of the participants
    "transcript": {             //Parameters of the feature of speech-to-text
      "enable": false,          //Enable the feature of speech-to-text, one of start or stop
      "subtitle": "close",       //Display the live subtitle, one of open or close. This parameter is the same as the
                                //parameter subtitle above. When the parameters you obtain contain two subtitles, you can select one of them
      "subtitle-font-size": "default", //The font size of the subtitle, one of default, medium, or big
      "subtitle-site-name": false,     //Display the name of the speaking participant or not
      "summary-url": "http://10.71.2.57:9884" //The server address for the third party to receive the result of speech-to-
                                //text. It is a kind of subscription information, sent by Http Post and in JSON format. For more information about the data
                                //format of speech-to-text, see Section 3.3.5.1
    },
    "entity-view": [ //The detailed information of a channel, supporting partial notification mechanism
      {
        "@entity": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:focus:id:73952", //You can identity the
        //layout parameter belonging to which channel via this parameter. Generally, the media channel set in the layout is audio-
        //video
        "@state": "full"
      },
      {
        "@entity": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:audio-video:id:73952",
        "@state": "full",
        "entity-state": {
          "video-layout": "Equality", // * The video layout, one of Equality, Presentation, SpeechExcitation, or
          // Exclusive;
          // for the discussion mode conference, the video layout can be Equality, SpeechExcitation, or Exclusive;
          // for the training mode conference, the video layout is Presentation
          /*
          "video-max-view": 8,          // The maximum number of the video images in the layout
          "video-presenter-layout": "Equality", //The video layout viewed by moderators, one of Equality,
          // SpeechExcitation, or Exclusive (Only when the video-layout is Presentation does this configuration take effect)
          "video-presenter-max-view": 8, //The maximum number of video images in the layout of 1+N (Only when
          // the video-layout is Presentation does this configuration take effect)
          "video-round-number": 2,      //The number of the video images in the video carousel
          "video-round-interval": 15,   //The interval of the video carousel
          "video-big-round": false,     //Enable the video carousel with large video images or not
          "video-speech-ex-sensitivity": 4, //The interval of voice-activated speaker
          "video-round-enabled": true,   //Enable the video carousel or not
          "video-speech-ex-enabled": true, //Enable the voice-activated speaker or not
          "video-data-mix-enabled": false, //Mix the shared content with the video or not
          "hide-osd-sitename": false,   //Hide the site name or not
          "hide-osd-sitestatus": true,   //Hide the site status or not
          */
        }
      }
    ]
  }
}
```

```

    "osd-position": "BottomLeft", //The display position of the sit name, one of TopLeft, TopMiddle,
    BottomLeft, or BottomMiddle
    "video-big-round": false, // Enable the carousel with large video images or not
    "video-big-position": "medium", //The position of the large video image in the 2+N layout, one of medium or
top
    "osd-sitename-font-size": "default", //The font size of the site name, one of default, medium, and big
    "osd-sitename-font-color": "white", //The font color of the site name, one of white, yellow, blue, red, and black
    "voice-prompt-enable": false, //Enable voice prompt or not
    "show-electronic-nameplate": false, //Enable electric nameplate or not
    "show-speaker-details": false, //Enable details of speaker or not
    "subtitle": false, //Display the live subtitle or not
    "self-view-enabled": false, //Display the local video image or not
    "face-frame-color": "green", //The frame color of the face recognition, one of green or lucency
    "transcript": { //Parameters of the feature of speech-to-text
        "enable": false, // Enable the feature of speech-to-text, one of start or stop
        "subtitle": "close", //Display the live subtitle, one of open or close. This parameter is the same as
the parameter subtitle in the above. When the parameters you obtain contain two subtitles, you can select one of them
        "subtitle-font-size": "default", //The font size of the subtitle, one of default, medium, or big
        "subtitle-site-name": false, //Display the name of the speaking participant or not
        "summary-url": "http://10.71.2.57" //The server address for the third party to receive the result of speech-
to-text. It is a kind of subscription information, sent by Http Post and in JSON format. For more information about the data
format of speech-to-text, see Section 3.3.5.1
    },
    "mediaFiltersRules": { //The media filter rule, it can have multiple rules
        "initialFilters": [
            {
                "role": "default", //The participant whom this rule applies to, one of default or attendee
                "ingressFilter": "unblock", //It specifies the filter value for the media in the direction from the endpoint
to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint
                "egressFilter": "unblock" //It specifies the filter value for the media in the direction from the MCU to
the endpoint. block is blocking the media from the MCU and unblock is unblocking the media from the MCU
            },
            {
                "@entity": "attendee", //All conference participants
                "role": "attendee", //The participant whom this rule is applicable to, one of default or attendee
                "ingressFilter": "unblock" //
            }
        ]
    },
    "video-broadcast-layout": { //The broadcasting layout
        "@state": "full",
        "video-broadcast-layout-pattern": [ //The template of the broadcasting layout
            {
                "@id": 204, //The template ID of the broadcasting layout
                "@state": "full",
                "enabled": false, //Enable the video carousel or not
                "display-text": "",
                "video-round-enabled": true, //Enable the video carousel or not
                "video-speech-ex-enabled": false, // Enable the voice-activated speaker or not
                "video-layout": "Equality", //The layout used in the broadcasting layout
                "video-max-view": 16, //The maximum number of the video images in the layout, for example,
it is 5 in the layout of 1+4
                "video-big-view": 1, //The number of the large video images in the layout, for example, it is 2

```

in TwoPlusN layout

```

        "video-round-number": 1,          //The video images of the video carousel
        "source-users": "",              //The users who are selected to be displayed in the broadcasting layout
        "target-users": "",             //The users whom the broadcasting layout is applied to
        "appoint-users": ""             // The users who are pinned in the video image
    }
  ]
}
},
{
  "@entity": "sip:Conference_73952@10.86.0.220.xip.io;opaque=app:conf:applicationsharing:id:73952",
  "@state": "full" //The updating status of the data
}
]
},
"errors": null
}

```

3.3.2.7 Obtaining the Controllable Conference List

Request URL:

- GET: /conference/control/schedule/{staffId}

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [
    {
      "@entity": "MjQwMjc=", //The conference entity
      "conference-description": {
        "profile": "default", //The name of the conference type
        "conference-number": "24027",
        "conference-type": "VGCP", //The conference type
        "is-recurrence": false, //It is a recurrence conference or not
        "is-ongoing": true, //The conference is ongoing or not
        "state": "create", //The conference status
        "start-time": "2018-07-17 07:00:00", //The conference start time
        "organizer": {
          "uid": "2c06ca064c5e45128c151b091f11c5c2", //The ID of the conference organizer
          "displayText": "10001" // The name of the conference organizer
        },
        "plan-id": "4f09b69db7aa4fa8a042491effa0fa8b", // The conference plan ID
        "record-id": "f64323944df140a9b4d2d3d007d0df8c", // The conference record ID
        "subject": "10001的视频会议", //The conference subject
        "subject-pinyin": "10001deshipinhuiyi",
        "presenter-pin": "099840", //The PIN code of the moderator
        "attendee-pin": "099840" // The PIN code of the participant
      }
    }
  ]
}

```



```

    }
  },
  "errors": null
}

```

3.3.2.8 Obtaining the Conference List Connected by the Specified Users

Request URL:

- GET: /conference/control/list/{staffId}

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "controllId": [
      "b739875589932a147d90fc056211a152" //Obtain the related information according to this parameter. If the user
      disconnected from the conference or the conference ends, it returns a null value
    ]
  },
  "errors": null
}

```

3.3.2.9 Obtaining the Parameters of the Default Media Filter Rule (Muting/Unmuting All Participants)

Request URL:

- GET: /conference/control/{controllId}/media

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "role": "default", //The participants that the rule applies to.
    "ingressFilter": {
      "#text": "block" //It specifies the filter value for the media in the direction from the endpoint to the MCU. block is
      blocking the media from the endpoint, unblock is unblocking the media from the endpoint
    },
    "egressFilter": {
      "#text": "unblock" //It specifies the filter value for the media in the direction from the MCU to the endpoint. block is

```

blocking the media from the MCU and unblock is unblocking the media from the MCU

```
{
  "ingress": {
    "#text": "block" //It is not available now
  },
  "egress": {
    "#text": "unblock"//It is not available now
  }
},
"errors": null
}
```

3.3.2.10 Editing the Default Media Filter Rule (Muting/Unmuting All Participants)

Request URL:

- POST: /conference/control/{controlId}/media

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|------------------|
| ingress | Boolean | No | | The muting mark. |

- Example Request:

```
{
  "ingress" : false //If it is false, it is blocking the media from the endpoint, if it is true, it is unblocking the media from the endpoint
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.2.11 Subscribing to the Conference Information

This interface allows the YMS client to receive the latest conference information, for example, the changes of the participants. After receiving, the YMS client can manage the received information, for example, displaying the received information to conference participants in real time. Therefore, we recommend that you use this interface. However, if you do not have a real-time demand, you can also call the interfaces in section 3.3.2 to obtain the conference information.

Request URL:

- POST: /conference/control/{controlId}/subscribe?time=60

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--|
| time | Integer | No | | The length of the subscription time is about 5 to 3600 minutes. It defaults to 60 if it is not configured. |

- Body parameter:

| Parameter | Type | Required | Length | Description |
|--------------|--------|----------|--------|--|
| server | String | Yes | | The server address that provides the latest conference information. |
| subscribelid | String | No | | The subscription ID of the renewal, which is the subscribelid returned by the previous subscription. |
| type | Array | No | | The subscription type. It defaults to all if it is not configured. |

- Example Request:

Subscription

```
{
  "server" : "url",          //The server address(for example, "http://yealink.com/conference"), used for receiving the latest
                             //conference information, must be contained when subscribing. This address is the http request address and uses POST by
                             //default
  "type" : [                 //The subscription type, if you subscribe to only a part of the information, you need to contain type in
                             //the request. If you subscribe to all the information, it is not required
    "conference-description", //The conference description, see Section 3.3.2.3
    "conference-state",      //The conference status, see Section 3.3.2.4
    "conference-view",       //The conference layout, see Section 3.3.2.6
    "conference-users",      //The user information, see the users part in Section 3.3.2.4
    "conference-record-users", //The information of the recording user, see the record-users part in Section 3.3.2.4
    "conference-rtmp-users", //The information of the RTMP user, see the rtmp-users part in Section 3.3.2.4
  ]
}
```

```

"conference-private" //The private data, see Section 3.3.2.13
"conference-guests", //The participant list of Call History, see Section 3.3.3.23
"conference-invitees", //The participant list of the Absence, see Section 3.3.3.24
"conference-relaties" //The participant list of Fast Call, see Section 3.3.3.25
]
}

```

Sending the Subscribed Information

```

{
  "conference-event" : "informationUpdated", /*
1. informationUpdated: all the updated instances of the conference information (After the subscription, all the conference
information is sent for the first time)

2. disconnected: the instances of the ended conferences or the disconnected conferences. The instance of the
disconnected conference can be sent only if it is subscribed, and after you receive it, the controllId is invalid

3.userAdded: the information that a user joins the conference (one single user information per time, for more information,
see the user part in section 3.3.2.1)

4.userUpdated: the updated user information (one single user information per time, for more information, see the user part
in section 3.3.2.1)

5. userDeleted: the information that a user leaves the conference (one single user information per time, for more
information, see the user part in section 3.3.2.1)

6. usersUpdated: all the updated user information
7. rtmpUsersUpdated: the updated information of the RTMP user
8. recordUsersUpdated: the updated information of the recording user
9. descriptionUpdated: the updated conference description
10. stateUpdated: the updated conference status
11. viewUpdated: the updated conference layout
12. privateDataUpdated: the updated private data
13.addUserResultUpdated: the updated instance of the result of inviting a batch users, see Section 3.3.3.18
14. guestsUpdated: the updated instance of the participant list of Call History
15. inviteesUpdated: the updated instance of the participant list of the Absence
16. relatiesUpdated: the updated instance of the participant list of Fast Call
*/
  "controllId" : "xxx", //The conference controllId
  "conference-info" : "" //The updated conference information (for more information, see Obtaining the Conference
Information in Section 3.3.2.1)
}

```

Renewal

Note: the subscription is valid within 60 minutes. When it expires, no more conference information will be sent to your client if you do not renew the conference information. If you want to renew the conference information, send the return subscribelId to renew.

```
{
  "server" : "url",      //The server is required when subscribing but it is not required when renewing
  "subscribelid" : "xxx", //If the subscribelid is included, it means you want to renew
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "subscribelid" : "xxx"
  },
  "error": null
}
```

3.3.2.12 Unsubscribing from the Conference Information

Request URL:

- POST: /conference/control/{controlId}/unsubscribe

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|--------------|--------|----------|--------|-------------------------------|
| subscribelId | String | Yes | | The ID of the unsubscription. |

- Example Request:

```
{
  "subscribelId": "xxx" //The ID of the unsubscription
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.2.13 Obtaining the Private Data

Note: this interface should be supported by the server, otherwise, the returned data is null.

Request URL:

- GET: /conference/control/{controlId}/info/private

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": { //The example data
    "aaa": "selfdataA",
    "vvv": "selfdataB",
    "ccc": "selfdataC",
    "ddd": "selfdataD"
  },
  "errors": null
}
```

3.3.2.14 Editing the Private Data

Note: in this interface, the private data should be supported by the server version.

Request URL:

- POST: /conference/control/{controlId}/info/private/modify

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-------------|------|----------|--------|--------------------------|
| privateData | | Yes | | The edited private data. |

- Example Request:

```
{
  "privateData" : { //The private data is transmitted by the JSON format, and the edited private data will cover the
    previous one
    "nameA" : "selfdataA",
    "nameB" : "selfdataB",
    "nameC" : "selfdataC",
    "nameD" : "selfdataD"
  }
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3 Operations on the Users

3.3.3.1 Obtaining the Information of Users in the Conference

Request URL:

- GET: /conference/control/{controlId}/user

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "users": {
      "@state": "full",
      "@participant-count": 1, //The number of users
      "@broadcast-user-count": 0, //The number of the broadcasting users
      "@interactive-user-count": 1, //
      "user": [
        {
          "@entity": "bbf8c2dc49b8fdf2adfca2f3bd3d843e", //The entity of the current participant, equals to the user
          uid. When you call the interface, the entity parameter you need is this parameter
          "@state": "full", //The updating status of the data
          "display-text": "123", //The display name
          "uid": "bbf8c2dc49b8fdf2adfca2f3bd3d843r", //The uid the current participant, corresponds to the staffId.
          Both uid and entity are used for identifying the user. When the interface requires entity and uid, you only need to pass one
          of them. Note that third-party does not have uid
          "protocol": "SIP", //The protocol used for joining the conference, one of SIP, H323, RTSP or RTMP
          "medium-server-type": "IPCALL", //The medium type
          "ip": "10.86.5.141", //The user IP
          "phone": "unauth-web-client", //The number used by the user to join the conference
          "request-uri": "SIP:9001@10.200.112.87.xip.io", // 账号uri
          "user-agent": "Yealink SIP-WEB 1.2.4 (Chrome 69.0)", //The user agent
          "roles": { /*
            It can support multiple entries, with different meanings. According to the entity attribute, the conference participants
            can be divided into the following:
            1) when entity=permission, it refers to the roles of the participants, one of the organizer (also displayed as the
            moderator in the UI), the presenter, the attendee, or the castviewer
            2) when entity=demostate, it refers to the role of lecturer, which is used to indicate whether or not the participant is
            speaking in the exclusive layout or the presentation layout
            It can be demonstrator or audience
            3) when entity=presenter-demostate, it refers to the role of speaker viewed by the moderator in the layout of training
            mode conference */
            "entry": [
              {
                "#text": "attendee",
                "@entity": "permission"
              },
              {
                "#text": "audience",
```



```

    "@entity": "demostate"
  },
  {
    "#text": "audience",
    "@entity": "presenter-demostrate"
  }
]
},
"endpoint": [ //The information of the channel created by the user, one of focus, audio-video, applicationsharing,
or chat. For example, when this parameter is applicationsharing, it refers to the content channel which is used by users to
share contents or receive contents
{
  "@entity": "8bcccb7d-6eac-709e-2df9-65e168efc62c", //The server generates this parameter and
distributes a uuid to each endpoint
  "@state": "full", //The updating status of the data
  "@session-type": "audio-video", //The channel type of the endpoint, for example, one of focus, audio-video,
chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
  "status": "connected",
  "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of dialed-in
or dialed-out
  "joining-info": {
    "when": "2018-07-31 00:40:37" // The time when the participant joins the conference
  },
  "rtsp-url": "rtsp://numax:numax@211.162.122.83:8554/live/2", // RTSP URL
  "mcu-call-id": "ce6f9a3db5424fe6d32790df47d4b85c", //The MCU Call ID of the channel
  "media": [ //The media information
  {
    "@id": 1,
    "type": "audio", //It means the media type which is the same as the media type in SDP
    "label": "main-audio", //The media label, one of main-audio, main-video, applicationsharing, or
fec
    "status": "recvonly", //The media direction, one of sendrecv, sendonly, recvonly, or inactive
    "media-ingress-filter": { //It specifies the filter value for the media in the direction from the endpoint
to the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint, and
unblocking is that the participant is applying for speaking
      "#text": "block", //One of block, unblock or unblocking
      "@blockby": "server" //Operated by the server or by the client
    },
    "media-egress-filter": { // It specifies the filter value for the media in the direction from the MCU to
the endpoint. block is blocking the media from the MCU and unblock is unblocking the media from the MCU
      "#text": "unblock", //One of block, unblock, or unblocking
    }
  },
  {
    "@id": 2,
    "type": "video", //The video information
    "label": "main-video", // The label name of the main video
    "status": "recvonly", //It means the media direction, one of sendrecv, sendonly, recvonly, or
inactive
    "media-ingress-filter": { //The same as the audio information
      "#text": "block", // One of block, unblock, or unblocking
      "@blockby": "server" //Operated by the server or by the client
    }
  }
],
}

```

```

        "media-egress-filter": {
            "#text": "unblock", //One of block, unblock, or unblocking
        }
    },
    {
        "@id": 4,
        "type": "application", // The media type
        "label": "fecc", // The camera label, which means that the user has a controllable camera,
        and you can call the interface of controlling cameras to control his camera
        "status": "sendrecv" //The media direction, one of sendrecv, sendonly, recvonly, or inactive
    }
]
},
{
    "@entity": "52d59641-00a1-aa08-6bdd-bc43a66d2ec0", //The information of the control channel, the
    same as the media channel
    "@state": "full", //The updating status of the data
    "@session-type": "focus", //The channel type of the endpoint, for example, one of focus, audio-
    video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
    "status": "connected",
    "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of dialed-
    in or dialed-out
    "joining-info": {
        "when": "2018-07-30 12:41:16" //The time when the participant joins the conference
    }
},
{
    "@entity": "a8ccbce7-0512-41d6-ef2f-4dc70800023a", //The information of the content channel, the
    same as the media channel
    "@session-type": "applicationsharing", //The channel type of the endpoint, for example, one of focus,
    audio-video, chat, applicationsharing, AV-S1 (the telepresence device), or AV-S2 (the telepresence device)
    "@state": "partial", //The updating status of the data
    "status": "connected",
    "joining-method": "dialed-in", //The method that the participant uses to join the conference, one of
    dialed-in or dialed-out
    "joining-info": {
        "when": "2018-12-13 10:04:40" //The time when the participant joins the conference
    },
    "mcu-call-id": "7cc178b0aec86f125ce211f11bad1678", //The MCU call ID
    "media": [
        {
            "@id": 3,
            "type": "video", //The media type
            "label": "applicationsharing", //The label name of the content channel
            "status": "sendonly" //The direction of the shared content, one of sendonly or recvonly
        }
    ]
}
]
}
]
}
},

```

```
"errors": null
}
```

3.3.3.2 Obtaining the User Call Statistics

Request URL:

- GET: /conference/control/{controlId}/user/statistics/{entity}

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "main-audio": {
      "send": {
        "ip": "",
        "codec": "RAW",
        "sample-rate": 0,
        "bandwidth": 0,
        "bitrate": 64000,
        "lossrate": 0,
        "packetlost": 0,
        "jitter": 0,
        "rtt": 0 //The round-trip time
      },
      "recv": {
        "ip": "10.86.0.220",
        "codec": "PCMU",
        "sample-rate": 48000,
        "bandwidth": 0,
        "bitrate": 64000,
        "lossrate": 0,
        "packetlost": 0,
        "jitter": 0,
        "rtt": 0
      }
    },
    "main-video": {
      "send": {
        "ip": "",
        "codec": "H.264",
        "width": 640, //The width of the resolution
        "height": 360, //The height of the resolution
        "fr": 25, //The frame rate
        "evtbr": 0,
        "bitrate": 2200,
        "lossrate": 0,
        "packetlost": 1,
        "jitter": 0,

```

```

    "rtt": 0 //The round-trip time
  },
  "recv": {
    "ip": "10.86.0.220",
    "codec": "h264",
    "width": 640,
    "height": 360,
    "fr": 5,
    "evtbr": 0,
    "bitrate": 799,
    "lossrate": 0,
    "packetlost": 0,
    "jitter": 1,
    "rtt": 0 //The round-trip time
  }
}
},
"errors": null
}

```

3.3.3.3 Inviting Users to Join Conferences

Note: if you want to invite participants via the user accounts or you want to invite a batch of participants in one time, we recommend that you call the interface in section [3.3.3.18 Inviting a Batch of Users to Join a Conference](#).

Request URL:

- POST: /conference/control/{controlId}/user/invite

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------|---------|----------|--------|---|
| request-uri | string | Yes | | The user uri. |
| uid | string | No | | The user staffId. |
| type | string | Yes | | The type of the invited participant. |
| band | Integer | No | | The call bandwidth for inviting participants. |

- **Example Request:**

```

{
  "users": [
    // Invite multiple users at one time. We do not recommend that you invite too many users at the
    // same time when you fail to invite one of them, the interface will return the failed result
    {
      "request-uri": "xxxx", /*The request-uri of the invited user, the format description of request-uri is as below:
        For SIP and Lync user, it is 'sip:username@domain'

        For H.323 user, it is 'h.323:username@domain'
      */
    }
  ]
}

```

```

        For IP call user, it is 'sip:10.86.0.199'
        For users invited by the user account, it is the same as uid
    */
    "uid" : "xxxx",      // The uid of the invited user, which is the same as the user staffId. When it is not null, it means
the user is invited by the account number
    "type" : "audio-video" // The inviting type, one of audio, video, or audio-video
    "band" : 1024         //The call bandwidth for inviting participants, should be less than the value of call-out-band
    }
  ]
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

3.3.3.4 Removing Users from Conferences

Request URL:

- POST: /conference/control/{controlId}/user/kick

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|-------|----------|--------|--|
| users | Array | Yes | | It carries the entity of the user who was removed from the conference. |

- Example Request:

```

{
  "users" : [
    "398a0998b23177e25800d8285cc7062d" //The user entity, it can be multiple. You can get the entity from the user
information when the user is at the conference. If the user is not at the conference, an error will return.
  ],
}

```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3.5 Setting Users on Hold

Request URL:

- POST: /conference/control/{controlId}/user/hold

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|-------|----------|--------|---|
| users | Array | Yes | | The entity of the user that needs to be set as waiting. |

- Example Request:

```
{
  "users": [
    "398a0998b23177e25800d8285cc7062d" //The user entity, it can be multiple. You can get the entity from the user
    information
  ],
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3.6 Canceling the Waiting Status of Users

Request URL:

- POST: /conference/control/{controlId}/user/unhold

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--|
| users | Array | Yes | | The entity of the user that needs to be set as waiting. |
| granted | boolean | Yes | | The mark of removing the user from the lobby or moving the user into the conference. |

- **Example Request:**

```
{
  "users": [
    "398a0998b23177e25800d8285cc7062d" //The user entity. You can get the entity from the user information
  ],
  "granted": false //If it is true, the user is moved into the conference from the lobby, if it is false, the user is removed from the lobby
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3.7 Controlling the User Cameras

Request URL:

- POST: /conference/control/{controlId}/user/camera/up
- POST: /conference/control/{controlId}/user/camera/down
- POST: /conference/control/{controlId}/user/camera/left
- POST: /conference/control/{controlId}/user/camera/right
- POST: /conference/control/{controlId}/user/camera/zoomin
- POST: /conference/control/{controlId}/user/camera/zoomout

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--|
| user | String | Yes | | The entity of the user whose camera you want to control. |
| step | Integer | Yes | | The number of steps. |

- **Example Request:**

```
{
  "user" : "entity", "398a0998b23177e25800d8285cc7062d", //You can control either the user entity or the user uid. If you
  want to control the camera of the user, make sure that the camera of the user is controllable
  "step" : 1
}
```

- There are six ways to control the camera, one of up, down, left, right, zoom in, or zoom out.

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3.8 Setting/Canceling Participants as Lecturers

Request URL:

- POST: /conference/control/{controllId}/user/demonstrator

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--|
| users | Array | Yes | | The user entity. |
| enable | boolean | Yes | | It means whether or not the user is set as a lecturer. |

- **Example Request:**

```
{
  "users" : [
    "entity" //The user entity, it can be multiple. You can get the entity from the user information when the user is at the
    conference. If the user is not at the conference, an error will return
  ],
  "enable" : false // When it is true, the user is set as a lecturer, otherwise, he is not.
}
```

Note: when setting the layout, you can call this interface to pin a participant to the layout of Exclusive. You can only pin one participant in a time.

Example of Successful Response:


```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3.9 Setting the Role

Request URL:

- POST: /conference/control/{controlId}/user/role

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|------------------|
| users | Array | Yes | | The user entity. |
| role | String | Yes | | The role type. |

- **Example Request:**

```
{
  "users": [
    "entity1",
    "entity2" //The user entity, it can be multiple. You can get the entity from the user information when the user is at the
    conference. If the user is not at the conference, an error will return
  ],
  "role": "xxx" //One of the presenter or the attendee
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": [
    {
      "conferenceKeys": {
        "@confEntity": "NTg0Mjk0MTQ5OQ==",
        "user": {
          "@entity": "23f21d232864ec9fe940090abc60e6cc", //The user entity
          "roles": {
            "entry": "attendee" //Return the role type set by the user
          }
        }
      }
    }
  ],
  {

```

```

    "conferenceKeys": {
      "@confEntity": "NTg0Mjk0MTQ5OQ==",
      "user": {
        "@entity": "6fc8cae1195b426dfe186c7642fd9fae",
        "roles": {
          "entry": "attendee"
        }
      }
    }
  ],
  "errors": null
}

```

3.3.3.10 Setting the Audio

Request URL:

- POST: /conference/control/{controllId}/user/audio

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--|
| users | Array | Yes | | The user entity. |
| egress | Boolean | No | | Mute the participant or not. |
| ingress | Boolean | No | | Allow the participant to speak or not. |

- **Example Request:**

```

{
  "users": [
    "entity"    ///The user entity, it can be multiple. You can get the entity from the user information when the user is at the
    conference. If the user is not at the conference, an error will return
  ],
  "egress" : false, //When it is false, the user is muted, otherwise, it is unmuted
  "ingress" : false //When it is false, the user is not allowed to speak, otherwise, the user is allowed to speak
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": [
    {
      "mediaKeys": {
        "@confEntity": "NTg0Mjk3ODk2Mw==",

```

```

    "@userEntity": "5298a5d1c0bb3dd8e214df374eeffbe5",
    "@endpointEntity": "0c27bd7f-97d6-535a-26de-1f3259278f14",
    "@mediaId": 1
  },
  "media": {
    "@id": 1,
    "type": "audio",
    "label": "main-audio",
    "status": "sendrecv",
    "media-ingress-filter": {
      "#text": "unblock", // block is blocking the audio from the participant and unblock is allowing the audio the
participant
      "@operator": ""
    }
  }
}
],
"errors": null
}

```

3.3.3.11 Setting the Video

Request URL:

- POST: /conference/control/{controlId}/user/video

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--|
| users | Array | Yes | | The user entity. |
| ingress | Boolean | Yes | | Allow the video of the participant or not. |

- Example Request:

```

{
  "users": [
    "entity" //The user entity, it can be multiple. You can get the entity from the user information when the user is at the
conference. If the user is not at the conference, an error will return
  ],
  "ingress": false //When it is false, the video of the participant is blocked, otherwise, the video of the participant is
allowed
}

```

Example of Successful Response:

```

{
  "ret": 1,

```

```

"data": [
  {
    "mediaKeys": {
      "@confEntity": "NTg0Mjk0MTQ5OQ==",
      "@userEntity": "23f21d232864ec9fe940090abc60e6cc",
      "@endpointEntity": "ee8cb4c7-58b3-265b-e982-44c408907456",
      "@mediaId": 2
    },
    "media": {
      "@id": 2,
      "type": "video",
      "label": "main-video",
      "status": "sendrecv"
    }
  }
],
"errors": null
}

```

3.3.3.12 Obtaining the List of Moderators

Request URL:

- GET: /conference/control/{controlId}/user/presenter

Request parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [ // The array of the participant information. For more information about the participant information, refer to
    the user information. When the length of this array is 0, there are no moderators at the conference
    {
      "@entity": "274940957",
      "@state": "full",
      "display-text": "八九九八",
      "display-text-pinyin": "bajiujiuba",
      "uid": "6ff88c3aa6c94738801de69f7b229543",
      "orgids": {
        "orgid": "eda222faaa394ba48521ed959b24fa23"
      },
      "protocol": "SIP",
      "medium-server-type": "",
      "ip": "10.86.4.11",
      "phone": "8998",
      "request-uri": "SIP:8998@ytkc.yealinkops.com",
      "user-agent": "Yealink VCDesktop 1.27.0.8",
      "roles": {
        "entry": [
          {
            "#text": "presenter", //It represents the moderator

```

```

    "@entity": "permission"
  },
  {
    "#text": "audience",
    "@entity": "demostate"
  }
]
},
"endpoint": [
  {
    "@entity": "2ccdf442-7131-86a6-992e-337f44f56de4",
    "@state": "full",
    "@session-type": "focus",
    "status": "connected",
    "joining-method": "dialed-in",
    "joining-info": {
      "when": "2019-01-10 07:32:15"
    }
  },
  {
    "@entity": "02e46bd0-65be-fda9-b8b3-58930a6378ff",
    "@state": "full",
    "@session-type": "audio-video",
    "status": "connected",
    "joining-method": "dialed-in",
    "joining-info": {
      "when": "2019-01-10 07:32:15"
    }
  },
  "mcu-call-id": "274940957",
  "media": [
    {
      "@id": 1,
      "type": "audio",
      "label": "main-audio",
      "status": "sendrecv",
      "media-ingress-filter": {
        "#text": "block",
        "@operator": "",
        "@blockby": "server"
      },
      "media-egress-filter": {
        "#text": "unblock",
        "@operator": ""
      }
    },
    {
      "@id": 2,
      "type": "video",
      "label": "main-video",
      "status": "sendrecv",
      "media-ingress-filter": {
        "#text": "unblock",
        "@operator": ""
      }
    }
  ]
}

```

```

    },
    "media-egress-filter": {
      "#text": "unblock",
      "@operator": ""
    }
  }
]
}
],
"errors": null
}

```

3.3.3.13 Obtaining the List of Guests

Request URL:

- GET: /conference/control/{controlId}/user/attendee

Request parameter:

None

Example of Successful Response:

```

{
  "ret": 1, // The array of the participant information. For more information about the participant information, refer to the
  user information. When the length of this array is 0, there are no guests at the conference
  "data": [
    {
      "@entity": "7d7436c55eadbc04cbe0812f387fe2b9",
      "@state": "partial",
      "display-text": "123",
      "uid": "",
      "protocol": "SIP",
      "medium-server-type": "",
      "ip": "10.86.5.141",
      "phone": "unauth-web-client",
      "request-uri": "",
      "user-agent": "Yealink SIP-WEB 1.2.58 (Chrome 71.0)",
      "roles": {
        "entry": [
          {
            "#text": "attendee", // It represents the guest
            "@entity": "permission"
          },
          {
            "#text": "audience",
            "@entity": "demostate"
          }
        ]
      }
    }
  ],
  "endpoint": [

```

```

{
  "@entity": "aaca3e3e-637e-a221-a4d3-cadf7ae5ad8b",
  "@session-type": "audio-video",
  "@state": "partial",
  "status": "connected",
  "joining-method": "dialed-in",
  "joining-info": {
    "when": "2019-01-10 12:00:55"
  },
  "mcu-call-id": "7d7436c55eadbc04cbe0812f387fe2b9",
  "media": [
    {
      "@id": 1,
      "type": "audio",
      "label": "main-audio",
      "status": "recvonly",
      "media-ingress-filter": {
        "#text": "block",
        "@operator": "",
        "@blockby": "server"
      },
      "media-egress-filter": {
        "#text": "unblock",
        "@operator": ""
      }
    },
    {
      "@id": 2,
      "type": "video",
      "label": "main-video",
      "status": "sendrecv",
      "media-ingress-filter": {
        "#text": "unblock",
        "@operator": ""
      },
      "media-egress-filter": {
        "#text": "unblock",
        "@operator": ""
      }
    }
  ]
},
{
  "@entity": "5231663e-8dd4-8642-db82-14160b5e0115",
  "@session-type": "focus",
  "@state": "partial",
  "status": "connected",
  "joining-method": "dialed-in",
  "joining-info": {
    "when": "2019-01-10 12:00:56"
  }
}

```

]

```

    }
  ],
  "errors": null
}

```

3.3.3.14 Obtaining the List of lecturers

Request URL:

- GET: /conference/control/{controlId}/user/demonstrator

Request parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [ //The array of the participant information. For more information about the participant information, refer to the
user information. When the length of this array is 0, there are no lecturers at the conference. The lecture can be the guest
or the moderator
    {
      "@entity": "7d7436c55eadbc04cbe0812f387fe2b9",
      "@state": "partial",
      "display-text": "123",
      "uid": "",
      "protocol": "SIP",
      "medium-server-type": "",
      "ip": "10.86.5.141",
      "phone": "unauth-web-client",
      "request-uri": "",
      "user-agent": "Yealink SIP-WEB 1.2.58 (Chrome 71.0)",
      "roles": {
        "entry": [
          {
            "#text": "attendee",
            "@entity": "permission"
          },
          {
            "#text": "demonstrator", //It represents the lecturer
            "@entity": "demostate"
          }
        ]
      }
    }
  ],
  "endpoint": [
    {
      "@entity": "aaca3e3e-637e-a221-a4d3-cadf7ae5ad8b",
      "@session-type": "audio-video",
      "@state": "partial",
      "status": "connected",
      "joining-method": "dialed-in",
      "joining-info": {
        "when": "2019-01-10 12:00:55"
      }
    }
  ]
}

```



```

    },
    "mcu-call-id": "7d7436c55eadbc04cbe0812f387fe2b9",
    "media": [
      {
        "@id": 1,
        "type": "audio",
        "label": "main-audio",
        "status": "recvonly",
        "media-ingress-filter": {
          "#text": "unblock",
          "@operator": ""
        },
        "media-egress-filter": {
          "#text": "unblock",
          "@operator": ""
        }
      },
      {
        "@id": 2,
        "type": "video",
        "label": "main-video",
        "status": "sendrecv",
        "media-ingress-filter": {
          "#text": "unblock",
          "@operator": ""
        },
        "media-egress-filter": {
          "#text": "unblock",
          "@operator": ""
        }
      }
    ]
  },
  {
    "@entity": "5231663e-8dd4-8642-db82-14160b5e0115",
    "@session-type": "focus",
    "@state": "partial",
    "status": "connected",
    "joining-method": "dialed-in",
    "joining-info": {
      "when": "2019-01-10 12:00:56"
    }
  }
]
},
"errors": null
}

```

3.3.3.15 Obtaining the List of the Broadcasting Parties

Request URL:

- GET: /conference/control/{controlId}/user/castviewer

Request parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": [ // The array of participant information. For more information about the participant information, refer to the user
            // information. When the length of this array is 0, there are no broadcasting parties at the conference
            {
              "@entity": "2bb416215f9d8277daab4e58fbbbaeb28",
              "@state": "full",
              "display-text": "123",
              "uid": "",
              "protocol": "SIP",
              "medium-server-type": "",
              "ip": "10.86.5.141",
              "phone": "unauth-web-client",
              "request-uri": "",
              "user-agent": "Yealink SIP-WEB 1.2.58 (Chrome 71.0)",
              "roles": {
                "entry": [
                  {
                    "#text": "castviewer", // It represents the broadcasting party
                    "@entity": "permission"
                  },
                  {
                    "#text": "audience",
                    "@entity": "demostate"
                  }
                ]
              }
            }
  ],
  "endpoint": [
    {
      "@entity": "e38a5f4c-60de-bbca-decd-d28ef307b2fe",
      "@state": "full",
      "@session-type": "audio-video",
      "status": "connected",
      "joining-method": "dialed-in",
      "joining-info": {
        "when": "2019-01-10 12:05:34"
      },
      "mcu-call-id": "2bb416215f9d8277daab4e58fbbbaeb28",
      "media": [
        {
          "@id": 1,
          "type": "audio",
          "label": "main-audio",
          "status": "recvonly",
          "media-ingress-filter": {
            "#text": "block",

```

```

        "@operator": "",
        "@blockby": "server"
    },
    "media-egress-filter": {
        "#text": "unblock",
        "@operator": ""
    }
},
{
    "@id": 2,
    "type": "video",
    "label": "main-video",
    "status": "sendrecv",
    "media-ingress-filter": {
        "#text": "block",
        "@operator": "",
        "@blockby": "server"
    },
    "media-egress-filter": {
        "#text": "unblock",
        "@operator": ""
    }
}
]
},
{
    "@entity": "336da23e-bc2a-27d6-5585-f1f081c4922c",
    "@state": "full",
    "@session-type": "focus",
    "status": "connected",
    "joining-method": "dialed-in",
    "joining-info": {
        "when": "2019-01-10 12:05:34"
    }
}
]
}
],
"errors": null
}

```

3.3.3.16 Obtaining the Media Information of Users

Request URL:

- POST: /conference/control/{controlId}/user/media

Request parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|-------|----------|--------|--|
| users | Array | Yes | | The entity of the conference participant you obtain. |

- Example Request

```
{
  "users": [
    "aacc6844d4edbb065561e9b4e5f2c8af", //The user entity, it can be multiple. You can get the entity from the user
    information
    "416c9662f454a010adc9f89f5a34868d"
  ]
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": [
    {
      "entity": "aacc6844d4edbb065561e9b4e5f2c8af", //The user entity
      "result": "find", //The result, one of find, unknown. When it is unknown, the result of media is null,
      which means the user leaves the conference or does not exist
      "media": [
        {
          "label": "main-audio", //If the result of the media lacks the main-audio label, it means the user does not
          speak at the conference or the user does not connect an audio device. This explanation can also apply to the video and
          content
          "status": "sendrecv", // The direction, one of sendrecv (receiving and sending), sendonly (send only), or
          recvonly (receive only)
          "ingress": "unblock", //block is blocking the audio from the participant, unblock is allowing the audio from the
          participant
          "blockby": "server" // The operation is operated by the user, the client, or unknown devices
        },
        {
          "label": "main-video", //The video information
          "status": "sendrecv",
          "ingress": "unblock", //block is blocking the video from the participant and unblock is allowing the video from
          the participant
          "blockby": "unknown" //The operation is operated by the user, the client, or unknown devices
        },
        {
          "label": "applicationsharing", //The label name of the content channel
          "status": "sendonly"
        }
      ]
    },
    {

```

```

    "entity": "416c9662f454a010adc9f89f5a34868d",
    "result": "unknown",
    "media": []
  },
  "errors": null
}

```

3.3.3.17 Obtaining the Role Information of Users

Request URL:

- POST: /conference/control/{controlId}/user/identity

Request parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|-------|----------|--------|--|
| users | Array | Yes | | The entity of the conference participant you obtain. |

- Example Request

```

{
  "users": [
    "aacc6844d4edbb065561e9b4e5f2c8af", //The user entity, it can be multiple. You can get the entity from the user
    information
    "416c9662f454a010adc9f89f5a34868d"
  ]
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": [
    {
      "entity": "aacc6844d4edbb065561e9b4e5f2c8af", //The user entity
      "result": "find", // The result, one of find, unknown. When it is unknown, the result is false, which
      means the user leaves the conference or does not exist
      "organizer": false, //The participant is the conference organizer or not
      "demonstrator": false, //The participant is the conference lecturer or not
      "presenter": false, //The participant is the conference moderator or not
      "attendee": true, //The participant is the guest or not
      "castviewer": false // The participant is the broadcasting party or not
    },
    {
      "entity": "416c9662f454a010adc9f89f5a34868d",

```

```

    "result": "unknown",
    "organizer": false,
    "demonstrator": false,
    "presenter": false,
    "attendee": false,
    "castviewer": false
  }
],
"errors": null
}

```

3.3.3.18 Inviting a Batch of Users to Join a Conference

Request URL:

- POST: /conference/control/{controlId}/user/invite/batch

Request parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------|---------|----------|--------|---|
| request-uri | string | Yes | | The user uri. |
| uid | string | No | | The user staffId. |
| type | string | Yes | | The type of the invited participant. |
| band | Integer | No | | The call bandwidth for inviting participants. |

- Example Request

```

{
  "users": [
    {
      "request-uri": "xxxx", /*The request-uri of the invited user, the format description of request-uri is as below:
      For SIP and Lync user, it is 'sip:username@domain'
      For H.323 user, it is 'h.323:username@domain'
      For IP call user, it is 'sip:10.86.0.199'
      For inviting the user account, it is the same as uid
      */
      "uid": "xxxx", // The uid of the invited user, which is the same as the user staffId. When it is not null, it means
      the user is invited by the user account. If the participant is not invited by account, the uid is not required to pass
      "type": "" // The inviting type, one of audio, video, or audio-video
      "band": 1024 //The call bandwidth for inviting participants, should be less than the value of call-out-band
    }
  ]
}

```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

- The result of inviting a batch of users will be reported via the subscription instance

```
{
  "conference-event": "addUserResultUpdated",
  "controllId": "0f9a66a655910f1f2a4da9a3f6122082",
  "conference-info": {
    "@entity": "MjAwMDA=",
    "@plan-id": "f0e7f17d8c9f47c3940c9051d6efd0ee",
    "@record-id": "e080f5270ee049369f3781ee5522f085",
    "@version": 3,
    "addUsersResult": {
      "conferenceKeys": {
        "@confEntity": "MjAwMDA="
      },
      "user": {
        "@requestUri": "sip:10.81.45.1", // The uri of the invited participant
        "uid": "1qicn3asd3das44asdu8v" //The uid of the invited participant
      },
      "reason": { // The reason for the invitation failure
        "@cause": 40004, // The error code
        "@protocol": "APOLLO",
        "@text": "Force reject by peer"
      }
    }
  }
}
```

3.3.3.19 Editing the Content-Sharing Privilege

Request URL:

- POST: /conference/control/{controllId}/user/share

Request parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------|---------|----------|--------|---|
| presenter | Boolean | Yes | | One of true or false. When it is true, the moderator has the privilege to share content, otherwise, he doesn't. |
| demonstrator | Boolean | Yes | | One of true or false. When it is true, the lecturer has the privilege to share content, otherwise, he doesn't. |
| attendee | Boolean | Yes | | One of true or false. When it is true, the guest has the privilege to share content, otherwise, he doesn't. |

- Example Request

```
{
  "presenter" : false,
  "demonstrator" : false,
  "attendee" : false
}
```

Example of Successful Request:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3.20 Inviting a RTSP User to Join the Conference

Request URL:

- POST: /conference/control/{controlId}/rtsp/invite

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|---------------------------|
| url | String | Yes | | The RTSP URL. |
| displayText | String | No | | The display name of RTSP. |
| uid | String | No | | The RTSP uid. |

- Example Request

```
{
  "url" : "rtsp://admin:admin@10.10.10.10:6666/live/1", //The RTSP URL
  "displayText" : "xxxxxx", //The display name of RTSP. It is not required in the request
  "uid" : "xxxxx"      //The RTSP uid. It is not required in the request
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "NjY2NjY="
    },
    "user": {
      "@entity": "rtsp_c98f6638-6f97-b89f-88a8-85d1d1e99298" /*The returned RTSP entity. You can check whether
RTSP users join the conference or not according to the notification you subscribe to. The information and the conference
control interface of RTSP users are the same as normal users. In a conference, you can identify RTSP users by the
protocol type*/
    }
  },
  "errors": null
}
```

- The result of inviting a RTSP user is reported by the notification you subscribed to.

```
{
  "conference-event": "addUserResultUpdated",
  "controllId": "0f9a66a655910f1f2a4da9a3f6122082",
  "conference-info": {
    "@entity": "MjAwMDA=",
    "@plan-id": "f0e7f17d8c9f47c3940c9051d6efd0ee",
    "@record-id": "e080f5270ee049369f3781ee5522f085",
    "@version": 3,
    "addUsersResult": {
      "conferenceKeys" : {
        "@confEntity" : "MjAwMDA="
      },
      "user" : {
        "@entity": "rtsp_6f434417-7606-53ff-a8f6-18d6dbd64870", //The RTSP entity in the inviting result. You can
compare this entity with the returned RTSP entity. If they are the same, you succeed in inviting the RTSP user to join the
conference
      },
      "reason" : {      //If you get reason in the result, it means that you fail to invite a RTSP user of the corresponding
entity
        "@cause": 40004,      //The error code
        "@protocol": "APOLLO",
        "@text": "Force reject by peer"
      }
    }
  }
}
```

```

    }
  }
}

```

3.3.3.21 Inviting a Batch of RTSP Users to Join the Conference

Request URL:

- POST: /conference/control/{controlId}/rtsp/invite/batch

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|--|
| users | Array | Yes | | The information of the invited RTSP users. |
| url | String | Yes | | The RTSP URL. |
| displayText | String | No | | The display name of RTSP. |
| uid | String | No | | The RTSP uid. |

- Example Request

```

{
  "users": [
    {
      "url": "rtsp://admin:admin@10.10.10.10:6666/live/1", //The RTSP URL
      "displayText": "xxxxxx", //The display name of RTSP. It is not required in the request
      "uid": "xxxxx" //The RTSP uid. It is not required in the request
    }
  ]
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

- The result of inviting a batch of RTSP users is the same as the one of inviting a RTSP user.

3.3.3.22 Sending DTMF Information

Request URL:

- POST: /conference/control/{controlId}/user/dtmf

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|-----------------------------------|
| user | String | Yes | | The user entity you want to send. |
| dtmf | String | Yes | | The DTMF you send. |

- **Example Request**

```
{
  "user": "xxxxxx", //The user entity you want to send
  "dtmf": "xxxxxx" //The DTMF you send, only including numbers, *, and #
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.3.23 Obtaining the Participant List of Call History**Request URL:**

- GET: /conference/control/{controlId}/user/guests

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": [ //The returned participant list. If there is no participant in the participant list of Call History, the value of data is null
    {
      "@entity": "9f96f08637e5419d80b46392c294fa70", //The participant entity, the same as uid
      "display-text": "9000", //The display name of the participant
      "display-text-pinyin": "9000",
      "uid": "9f96f08637e5419d80b46392c294fa70", //The participant uid
      "orgids": {
        "orgid": "2112d507225f40198552980675174180" //The participant orgid
      },
      "protocol": "SIP", //The protocol used by the participant
    }
  ]
}
```

```

    "request-uri": "",          //The request uri
    "role": "presenter",       //The participant role. Here it is moderator
    "registered": false,       //The registration status of the participant
    "phone": "9000"            //The participant number
  },
  {
    "@entity": "webrtc_test",   //The entity of the third-party participant. It is the same as the display name
    "display-text": "webrtc_test", //The display name of the participant
    "display-text-pinyin": "",
    "uid": "",                 //Third-party participants do not have uid
    "protocol": "SIP",         //The protocol used by the participant
    "request-uri": "",         //The request uri
    "role": "attendee",        //The participant role. Here it is guest
    "registered": true,        //The registration status of the participant
    "phone": "unauth-web-client" //The participant number. unauth-web-client is the WebRTC endpoint
  }
],
"errors": null
}

```

3.3.3.24 Obtaining the Participant List of Absence

Request URL:

- GET: /conference/control/{controlId}/user/invitees

Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [ //The returned participant list. If there is no participant in the participant list of Absence, the value of
data is null
    {
      "@entity": "1380ce9da5a94ec8acb9643b134f52a8", //The participant entity, the same as uid
      "display-text": "9005", //The display name of the participant
      "display-text-pinyin": "9005",
      "uid": "1380ce9da5a94ec8acb9643b134f52a8", //The participant uid
      "orgids": {
        "orgid": "2112d507225f40198552980675174180" //The participant orgid
      },
      "protocol": "SIP", //The protocol used by the participant
      "request-uri": "", //The request uri of the participant
      "role": "presenter", //The participant role. Here it is moderator
      "registered": false, //The registration status of the participant
      "phone": "9005" //The participant number
    },
  ],
  "errors": null
}

```

3.3.3.25 Obtaining the Participant List of Fast Call

Request URL:

- GET: /conference/control/{controlId}/user/relaties

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": [      //The returned participant list. If there is no participant in the participant list of Fast Call, the value of
data is null
    {
      "@entity": "1380ce9da5a94ec8acb9643b134f52a8", //The participant entity, the same as uid
      "display-text": "9005",           //The display name of the participant
      "display-text-pinyin": "9005",
      "uid": "1380ce9da5a94ec8acb9643b134f52a8",    //The participant uid
      "orgids": {
        "orgid": "2112d507225f40198552980675174180" //The participant orgid
      },
      "protocol": "SIP",           //The protocol used by the participant
      "request-uri": "",          //The request uri of the participant
      "role": "presenter",        //The participant role. Here it is moderator
      "registered": false,        //The registration status of the participant
      "phone": "9005"             //The participant number
    },
  ],
  "errors": null
}
```

3.3.4 Operations on the RTMP Live Broadcast

3.3.4.1 Obtaining the Parameters of the Default RTMP Live Broadcast

Request URL:

- GET: /conference/control/{controlId}/rtmp

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "enabled": false, //Enable RTMP or not
    "display-text": "", //The details of the RTMP live broadcast
    "mcu-session-type": "", //The media type, one of AV(the audio and video) or Data(the content). The combination can
    be AVD, AV and AD
    "max-video-fs": "", //1080P, 720P AND 360P. 1080P is only available in forwarding
    "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue, or Exclusive
    "web-share-url": "" //The http address for watching
  },
  "errors": null
}
```

3.3.4.2 Obtaining the Information of the RTMP Live Broadcast

Request URL:

- GET: /conference/control/{controlId}/rtmp/info

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "subject": "api",
    "startTime": 1532948400000,
    "endTime": 1535715000000,
    "organizerName": "9100",
    "description": "",
    "status": null,
    "liveBroadcastStartTime": null,
    "pullStreamUrl": { //The address information
      "highM3u8": "http://pushlive.yealinkvc.com/2018/h3e01469363344e0a8d3614054ae4fb07.m3u8?
auth_key=1533002835614-0-0-340f99d22c303afac8aaa571dec91dfa",
      "highRtmp": "rtmp://pushlive.yealinkvc.com/2018/h3e01469363344e0a8d3614054ae4fb07?
auth_key=1533002835614-0-0-7dd3adb785194868eff259451bb36269",
      "standardRtmp": "rtmp://pushlive.yealinkvc.com/2018/3e01469363344e0a8d3614054ae4fb07?
auth_key=1533002835613-0-0-ff47d9f844f30103dddb4b7d38c582c9",
      "standardM3u8": "http://pushlive.yealinkvc.com/2018/3e01469363344e0a8d3614054ae4fb07.m3u8?
auth_key=1533002835614-0-0-fdda721e2c8b17e7518386db834f6905"
    },
    "liveBroadcastEnable": false, //Enable the live broadcast or not
    "definition": "720P",
  },
  "errors": null
}
```

3.3.4.3 Obtaining the RTMP Users

Request URL:

- GET: /conference/control/{controlId}/rtmp/user

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "@state": "full",
    "@participant-count": 1, //The number of the RTMP user, when it is 0, no user information is carried
    "user": [ //The information of the RTMP user
      {
        "@entity": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d", //The entity of the RTMP user
        "@state": "full",
        "rtmp-type": "default", //The method to join the RTMP, one of default (RTMP live broadcast) or invite. RTMP
        live broadcast defaults to only one endpoint, streaming the video and the content together.
        "rtmp-status": "connected", //The aggregate status of the RTMP live broadcast, one of pending, disconnected,
        dialing-out, on-hold, or connected. You can get this value to identify the user status. The status of multiple endpoints are
        aggregated by FS
        "rtmp-last-stop-duration": 0, //The duration of the last time you pause/stop the RTMP live broadcast
        "rtmp-last-start-time": "2018-08-06 06:18:42", //The time at the last time you start/resume the RTMP live
        broadcast
        "mcu-session-type": "AVD", //The media type of RTMP, one of AVD, AD, and AV
        "max-video-fs": "720P", //1080P, 720P AND 360P. 1080P is only available in forwarding mode
        "display-text": "123456",
        "protocol": "RTMP",
        "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue, or
        Exclusive
        "roles": {
          "entry": [
            {
              "#text": "attendee",
              "@entity": "permission"
            },
            {
              "#text": "audience",
              "@entity": "demostate"
            }
          ]
        },
        "endpoint": [
          {
            "@entity": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d_audio-video_360P",
            "@state": "full",
            "@session-type": "audio-video",

            "status": "connected", //The status of the RTMP live broadcast, one of pending, disconnected, dialing-out,
```

on-hold or connected

```

    "joining-method": "dialed-out",
    "joining-info": {
      "when": "2018-08-06 06:18:33"
    },
    "mcu-session-type": "AVD",
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/917d68feef76460f911842107962b21e?
vhost=pushlive.yealinkvc.com&auth_key=1533536313403-0-0-7762757d15404547a5f16044b7b84fc1",
    "video-data-layout": "",
    "max-video-fs": "360P"
  },
  {
    "@entity": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d_audio-video_720P",
    "@state": "full",
    "@session-type": "audio-video",
    "status": "connected",
    "joining-method": "dialed-out",
    "joining-info": {
      "when": "2018-08-06 06:18:33"
    },
    "mcu-call-id": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d_audio-video_720P",
    "mcu-session-type": "AVD",
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/h917d68feef76460f911842107962b21e?
vhost=pushlive.yealinkvc.com&auth_key=1533536313403-0-0-66d1a520967def607c3500887d26b44e",
    "video-data-layout": "",
    "max-video-fs": "720P"
  }
]
}
}
},
"errors": null
}

```

3.3.4.4 Obtaining the Status of the RTMP Live Broadcast

Request URL:

- GET: /conference/control/{controlId}/rtmp/status

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "@entity": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d", //The RTMP entity
    "@state": "full",
    "rtmp-type": "default", //The RTMP type, currently only default is available
    "rtmp-status": "connected", //The status of the RTMP live broadcast
    "rtmp-last-stop-duration": 0, //The duration of the last time you stop the RTMP live broadcast
  }
}

```



```

"rtmp-last-start-time": "2018-08-06 06:18:42", //The time at the last time you start/resume the RTMP live broadcast
"mcu-session-type": "AVD", //The media type of RTMP, one of AVD, AD, or AV
"max-video-fs": "720P", //1080P, 720P AND 360P. 1080P is only available in forwarding mode
"display-text": "123456",
"protocol": "RTMP",
"video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue, or Exclusive
"roles": {
  "entry": [
    {
      "#text": "attendee",
      "@entity": "permission"
    },
    {
      "#text": "audience",
      "@entity": "demostate"
    }
  ]
},
"endpoint": [ //The detailed information of RTMP media
  {
    "@entity": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d_audio-video_360P",
    "@state": "full",
    "@session-type": "audio-video",
    "status": "connected",
    "joining-method": "dialed-out",
    "joining-info": {
      "when": "2018-08-06 06:18:33"
    },
    "mcu-session-type": "AVD",
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/917d68feef76460f911842107962b21e?
vhost=pushlive.yealinkvc.com&auth_key=1533536313403-0-0-7762757d15404547a5f16044b7b84fc1",
    "video-data-layout": "",
    "max-video-fs": "360P"
  },
  {
    "@entity": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d_audio-video_720P",
    "@state": "full",
    "@session-type": "audio-video",
    "status": "connected",
    "joining-method": "dialed-out",
    "joining-info": {
      "when": "2018-08-06 06:18:33"
    },
    "mcu-call-id": "rtmp_771693c4-6f6e-474e-179b-d995e415e25d_audio-video_720P",
    "mcu-session-type": "AVD",
    "rtmp-url": "rtmp://video-center.alivecdn.com/2018/h917d68feef76460f911842107962b21e?
vhost=pushlive.yealinkvc.com&auth_key=1533536313403-0-0-66d1a520967def607c3500887d26b44e",
    "video-data-layout": "",
    "max-video-fs": "720P"
  }
]
},
"errors": null

```

```
}
```

3.3.4.5 Starting the Default RTMP Live Broadcast

Request URL:

- POST: /conference/control/{controlId}/rtmp/default/start

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------------|--------|----------|--------|--|
| mcu-session-type | String | Yes | | The media type. |
| max-video-fs | String | Yes | | The definition, for example, 720P. |
| display-text | String | No | 800 | The display name of the RTMP live broadcast. |
| video-data-layout | String | No | | The video layout. |

- **Example Request:**

```
{
  "mcu-session-type": "AV", //The media type of RTMP, one of AVD, AD, and AV
  "max-video-fs": "720P", //1080P, 720P AND 360P. 1080P is only available in forwarding mode
  "display-text" : "RTMP直播详情"
  "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue, or Exclusive
},
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.4.6 Editing the Parameters of the Default RTMP Live Broadcast

Request URL:

- POST: /conference/control/{controlId}/rtmp/default/apply

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------------|--------|----------|--------|--|
| mcu-session-type | String | Yes | | The media type. |
| max-video-fs | String | Yes | | The definition, for example, 720P. |
| display-text | String | No | 800 | The display name of the RTMP live broadcast. |
| video-data-layout | String | No | | The video layout. |

- **Example Request:**

```
{
  "mcu-session-type": "AVD", //The media type of RTMP, one of AVD, AD, or AV
  "max-video-fs": "720P", //1080P, 720P AND 360P. 1080P is only available in forwarding mode
  "display-text" : "RTMP直播详情"
  "video-data-layout": "SpeechExcitation", //The video layout, one of SpeechExcitation, PictureInPictrue, or Exclusive
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.4.7 Ending the Default RTMP Live Broadcast

Request URL:

- POST: /conference/control/{controlId}/rtmp/default/stop

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.4.8 Inviting the Third-Party RTMP Live Broadcast

Request URL:

- POST: /conference/control/{controlId}/rtmp/invite

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------------|--------|----------|--------|---|
| session | Array | Yes | | The invited user. |
| @session-type | String | Yes | | The channel type. |
| mcu-session-type | String | Yes | | The media type. |
| max-video-fs | String | Yes | | The definition, for example, 720P. |
| rtmp-url | String | Yes | | The address of the RTMP live broadcast. |

- **Example Request:**

```
{
  "session" : [
    {
      "@session-type" : "audio-video", //The session type, one of audio-video(the audio and the video) or
      applicationsharing(the shared content). You can invite RTMP of different session types respectively
      "rtmp-url" : "rtmp://send1.douyu.com/live/5466167r85OrO3qC?
      wsSecret=7ed2f9dc7427d1fdf9d9910f9dd97800&wsTime=5b68118b&wsSeek=off&wm=0&tw=0",
      "mcu-session-type" : "AV", //The media type of RTMP, one of AV (the audio and the video), and AD (the audio
      and the shared content)
      "max-video-fs" : "720P" //1080P, 720P AND 360P. 1080P is only available in forwarding mode
    },
    {
      "@session-type" : "applicationsharing", //The session type, one of audio-video(the audio and the video) or
      applicationsharing (the shared content). You can invite RTMP of different session types respectively
      "rtmp-url" : "rtmp://send1.douyu.com/live/5466167r85OrO3qC?
      wsSecret=7ed2f9dc7427d1fdf9d9910f9dd97800&wsTime=5b68118b&wsSeek=off&wm=0&tw=0",
      "mcu-session-type": "AD", //The media type of RTMP, one of AV (the audio and the video), and AD (the audio and
      the shared content)
      "max-video-fs": "720P", //1080P, 720P AND 360P. 1080P is only available in forwarding mode
    }
  ]
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "NTAyOTE="
    },
    "user": {
      "@entity": "rtmp_6a820c3b-41cc-5a0b-47b5-ad20af2282f0" //The entity of the third-party RTMP, which can be
      used for the following operations
    }
  },
  "errors": null
}
```

3.3.4.9 Editing the Third-Party RTMP Live Broadcast

Request URL:

- POST: /conference/control/{controlId}/rtmp/apply

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------------|--------|----------|--------|---|
| @entity | String | Yes | | The entity of the RTMP user. |
| endpoint | Array | Yes | | The breakpoint information. |
| @entity | String | Yes | | The entity of the endpoint. |
| @session-type | String | Yes | | The channel type. |
| mcu-session-type | String | Yes | | The media type. |
| max-video-fs | String | Yes | | The definition, for example, 720P. |
| rtmp-url | String | Yes | | The address of the RTMP live broadcast. |

- **Example Request:**

```
{
  "@entity": "xxxx", //The entity of the RTMP user
  "endpoint": [
    {
      "@entity": "xxx", //The entity of the endpoint
      "@session-type": "audio-video", //The session type, one of audio-video(the audio and the video) or
      applicationsharing(the shared content)
      "rtmp-url": "rtmp://xxx",

      "mcu-session-type": "AV", //The media type of RTMP, one of AV (the audio and the video), or AD (the audio and
```

```

the shared content)
    "max-video-fs" : "720P"
  },
  {
    "@entity" : "xxx",
    "@session-type" : "applicationsharing",
    "rtmp-url" : "rtmp://xxx",
    "mcu-session-type" : "AD",
    "max-video-fs" : "720P"
  }
]
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

3.3.4.10 Deleting the Third-Party RTMP Live Broadcast

Request URL:

- POST: /conference/control/{controlId}/rtmp/delete

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|-------|----------|--------|---|
| rtmpUsers | Array | Yes | | The entity of the RTMP user that needs controlling. |

- Example Request:

```

{
  "rtmpUsers" : [ "entity1", "entity2" ] //The entity of the third-party RTMP. You can obtain it from the RTMP users. You can
delete several of them at one time.
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

3.3.5 Operations on the Layout

3.3.5.1 Obtaining the Layout Parameters

Request URL:

- GET: /conference/control/{controlId}/layout

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "video-layout": "SpeechExcitation", /*The video layout, one of Equality, Presentation, SpeechExcitation, and Exclusive
    In discussion mode conferences, the video layout can be Equality, SpeechExcitation, and Exclusive. In the video layout of Exclusive, if you want to pin a participant, you can use the interface of setting a lecturer
    In training mode conferences, the video layout is Presentation only. You can keep video-layout and video-presenter-layout as the default value, and mainly set the template of the broadcasting layout
    */
    "video-max-view": 1, /*The maximum number of video images
    In the video layout of Equality(N*N), it can be 4, 9, 16, 25, 36, and 49
    In the video layout of SpeechExcitation(1+N), it can be 1, 5, 8, 10, 13, 17, and 21
    */
    "video-presenter-layout": "Equality", //The video layout viewed by moderators, one of Equality, SpeechExcitation, or Exclusive (Only when the video-layout is Presentation does this configuration take effect)
    "video-presenter-max-view": 8, //The maximum number of video images in the layout of 1+N (Only when the video-layout is Presentation does this configuration take effect)
    "video-round-number": 1, //The number of video images in the carousel, it cannot be more than the number in video-max-view
    "video-round-interval": 15, //The interval of the video carousel is from 1 to 3600 seconds
    "video-speech-ex-sensitivity": 2, //The length of time for voice-activated speaker is from 1 to 10 seconds
    "video-data-mix-enabled": false, //Mix the content with the video or not
    "video-round-enabled": true, //Enable the video carousel or not
    "video-speech-ex-enabled": true, //Enable the voice-activated speaker or not
    "hide-osd-sitename": false, //Hide the site name or not
    "hide-osd-sitestatus": false, //Hide the site status or not
    "osd-position": "BottomLeft", //The display position of the site name, one of, TopLeft,TopMiddle, BottomLeft, or BottomMiddle
    "video-big-round": false, //Enable the video carousel with large video images or not
    "video-big-position": "medium", //The display position of the large video image in the 2+N layout, one of medium or top
    "osd-sitename-font-size": "default",//The font size of the site name, one of default, medium, or big
    "osd-sitename-font-color": "white", //The font color of the site name, one of white, yellow, blue, red, or black
    "voice-prompt-enable": false, //Enable voice prompt or not
    "show-electronic-nameplate": false, //Enable electric nameplate or not
    "show-speaker-details": false, //Enable details of speaker or not

    "subtitle": false, //Display the live subtitle or not, one of open or close
```



```

"self-view-enabled": false,      //Display the local video image or not
"face-frame-color": "green",    //The frame color of the face recognition, one of green or lucency
"transcript": {                 //Parameters of the feature of speech-to-text
  "enable": false,              //Enable the feature of speech-to-text, one of start or stop
  "subtitle": "close",          //Display the live subtitle, one of open or close. This parameter is the same as the
parameter subtitle above. When the parameters you obtain contain two subtitles, you can select one of them
  "subtitle-font-size": "default", //The font size of the subtitle, one of default, medium, or big
  "subtitle-site-name": false,    //Display the name of the venue which the speaking participant belongs to or not
  "summary-url": "http://10.71.2.57:9884" //The server address for the third party to receive the result of speech-to-
text. It is a kind of subscription information, sent by Http Post and in JSON format
},
},
"errors": null
}

```

3.3.5.2 Editing the Layout Parameters

Request URL:

- POST /conference/control/{controlId}/layout

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------------------------|---------|----------|--------|--|
| video-layout | String | Yes | | The video layout. |
| video-max-view | Integer | Yes | | The maximum number of video images. |
| video-presenter-layout | String | Yes | | The video layout viewed by moderators. |
| video-presenter-max-view | Integer | Yes | | The limit of video images in the layout of 1+N (Presentation). |
| video-round-number | Integer | Yes | | The number of video images in the carousel. |
| video-round-interval | Integer | Yes | | The interval of the video carousel. |
| video-speech-ex-sensitivity | Integer | Yes | | The length of time for voice-activated speaker. |
| video-round-enabled | Boolean | Yes | | Enable the video carousel or not. |
| video-speech-ex-enabled | Boolean | Yes | | Enable the voice-activated speaker or not. |
| hide-osd-sitename | Boolean | Yes | | Hide the site name or not. |
| hide-osd-sitestatus | Boolean | Yes | | Hide the site status or not. |
| osd-position | String | No | | The display position of the site name. |
| video-big-round | Boolean | No | | Enable the video carousel with large video images or not. |
| video-big-position | String | No | | The display position of the large video image in the 2+N layout, one of medium or top. |
| osd-sitename-font-size | String | No | | The font size of the site name. |
| osd-sitename-font-color | String | No | | The font color of the site name. |
| voice-prompt-enable | Boolean | No | | Enable voice prompt or not. |
| show-electronic-nameplate | Boolean | No | | Enable electric nameplate or not. |

| Parameter | Type | Required | Length | Description |
|----------------------|---------|----------|--------|---|
| show-speaker-details | Boolean | No | | Enable details of speaker or not. |
| subtitle | Boolean | No | | Display the live subtitle or not. |
| self-view-enabled | Boolean | No | | Display the local video image or not. |
| face-frame-color | String | No | | The frame color of the face recognition. |
| enable | Boolean | No | | Enable the feature of speech-to-text. |
| subtitle-font-size | String | No | | The font size of the subtitle. |
| subtitle-site-name | Boolean | No | | Display the name of the venue which the speaking participant belongs to or not. |
| summary-url | String | No | | The server address for the third party to receive the result of speech-to-text. |

- **Example Request:**

```
{
  "video-layout": "SpeechExcitation", /*The video layout, one of Equality, Presentation, SpeechExcitation, and Exclusive
  In discussion mode conferences, the video layout can be Equality, SpeechExcitation, and Exclusive. In the video layout of Exclusive, if you want to pin a participant, you can use the interface of setting a lecturer
  In training mode conferences, the video layout is Presentation only. You can keep video-layout and video-presenter-layout as the default value, and mainly set the template of the broadcasting layout.
  */
  "video-max-view": 1, /*The maximum number of video images
  In the video layout of Equality(N*N), it can be 4, 9, 16, 25, 36, and 49
  In the video layout of SpeechExcitation(1+N), it can be 1, 5, 8, 10, 13, 17, and 21
  */
  "video-presenter-layout": "Equality", // The video layout viewed by moderators, one of Equality, SpeechExcitation, or Exclusive (Only when the video-layout is Presentation does this configuration take effect)
  "video-presenter-max-view": 8, //The maximum number of video images in the layout of 1+N (Only when the video-layout is Presentation does this configuration take effect)
  "video-round-number": 1, //The number of video images in the carousel, it cannot be more than the number in video-max-view
  "video-round-interval": 15, //The interval of the video carousel is from 1 to 3600 seconds
  "video-speech-ex-sensitivity": 2, //The length of time for voice-activated speaker is from 1 to 10 seconds
  "video-data-mix-enabled": false, //Mix the content with the video or not
  "video-round-enabled": true, //Enable the video carousel or not
  "video-speech-ex-enabled": true, //Enable the voice-activated speaker or not
  "hide-osd-sitename": false, //Hide the site name or not
  "hide-osd-sitestatus": false, //Hide the site status or not
  "osd-position": "BottomLeft", //The display position of the site name, one of, TopLeft,TopMiddle, BottomLeft, or BottomMiddle
  "video-big-round": false, //Enable the video carousel with large video images or not
}
```

```

"video-big-position": "medium", //The display position of the large video image in the 2+N layout, one of medium or
top
"osd-sitename-font-size": "default", //The font size of the site name, one of default, medium, or big
"osd-sitename-font-color": "white", //The font color of the site name, one of white, yellow, blue, red, or black
"voice-prompt-enable": false, //Enable voice prompt or not
"show-electronic-nameplate": false, //Enable electric nameplate or not
"show-speaker-details": false, //Enable details of speaker or not
"subtitle": false, //Display the live subtitle or not
"self-view-enabled": false, //Display the local video image or not
"face-frame-color": "green", //The frame color of the face recognition, one of green or lucency

"transcript": { //Parameters of the feature of speech-to-text
  "enable": false, //Enable the feature of speech-to-text, one of start or stop. If this parameter is
  enabled, it means that you can enable the speech-to-text and the live subtitle independently. If not, the speech-to-text is
  enabled by default when you enable the live subtitle
  "subtitle": "close", //Display the live subtitle, one of open or close. This parameter is the same as the
  parameter subtitle above. When the parameters you obtain contain two subtitles, you can select one of them
  "subtitle-font-size": "default", //The font size of the subtitle, one of default, medium, or big
  "subtitle-site-name": false, //Display the name of the venue which the speaking participant belongs to or not
  "summary-url": "http://10.71.2.57:9884" //The server address for the third party to receive the result of speech-to-
  text. It is a kind of subscription information, sent by Http Post and in JSON format
},
}

```

Example Data Format of Speech-to-Text:

```

{
  "method": "phonetictranscript",
  "data": {
    "type": "var",
    "speaktime": 1584597453, //The time
    "content": "语音转写测试" //The text
  }
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

3.3.5.3 Obtaining the Parameters of the Broadcasting Layout

Request URL:

- GET: /conference/control/{controllId}/layout/broadcast

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [
    {
      "@id": 204,          // The template ID of the broadcasting layout. You can use it to edit a specific template. Now,
                          // we provide 4 templates which are independent of each other
      "enabled": true,      // Enable this template or not
      "display-text": "",   // Display the name
      "video-round-enabled": true, // Enable the video carousel or not
      "video-speech-ex-enabled": false, // Enable the voice-activated speaker or not
      "video-layout": "Equality", // The broadcasting layout, one of Equality, SpeechExcitation(including 1+N mode
                                // and 2+N mode), or Exclusive
      "video-max-view": 16, /*The maximum number of video images
                              In the video layout of Equality(N*N), it can be 4, 9, 16, 25, 36, and 49
                              In the video layout of SpeechExcitation(1+N), it can be 1, 5, 8, 10, 13, 17, and 21
                              In the video layout of SpeechExcitation(2+N), it can be 10 only
                              In the video layout of Exclusive, it can be 1 only
                              */
      "video-big-view": 1, /*The number of large video images
                              In the video layout of SpeechExcitation(1+N), it is 1
                              In the video layout of SpeechExcitation(2+N), it is 2 and you should at least pin a participant to the layout.
                              */
      "video-round-number": 1, //The number of video images in the carousel, it cannot be more than the number in
                                // video-max-view
      "video-big-round": false, //Enable the video carousel with large video images or not
      "video-big-position": "medium", //The display position of the large video image in the 2+N layout, one of medium
                                      // or top
      "source-users": { //The selected participants to be pinned to the layout. It can be divided into v-user and user

        "v-user": [ //The type of participants
          {
            "@cmp-key": "allCastviewer", // The same as type
            "type": "allCastviewer" /*The type can be the following:
                                      1. allPresenter: all the moderators
                                      2. allAttendee: all the conference participants
                                      3. allApplicationsharing: all the shared contents
                                      4. allCastviewer: all the broadcasting parties
                                      5. allRtmp: all the RTMP users
                                      6. allRecord: all the recording users

                                      Note that, for source-users, allCastviewer, allRtmp, and allRecord are not available
                                      for target-users, allApplicationsharing is not available
                                      for appoint-users, only allApplicationsharing is available
                                      */
          },
          {
            "@cmp-key": "allRtmp",
            "type": "allRtmp"
          }
        ],
        "user": [

```

```

    {
      "@cmp-key": "c78b4c59b777463c923e657ce25dba7c", // The same as the uid. The server will return either
      cmp-key or entity according to whether or not the user is online
      "@entity": "c78b4c59b777463c923e657ce25dba7c", // The user entity,the same as uid
      "uid": "c78b4c59b777463c923e657ce25dba7c" // The user uid
    },
    {
      "@entity": "250e26de559f75f158d193413b6a8a32" //The third-party user, the server only returns the entity
value
    }
  ]
},
"target-users": { // The participants who the broadcasting layout is applied to
  "v-user": [
    {
      "@cmp-key": "allCastviewer", // The same as type
      "type": "allCastviewer" /*The type can be the following:
1. allPresenter: all the moderators
2. allAttendee: all the conference participants
3. allApplicationsharing: all the shared contents
4. allCastviewer: all the broadcasting parties
5. allRtmp: all the RTMP users
6. allRecord: all the recording users

Note that, for source-users, allCastviewer, allRtmp, and allRecord are not available
for target-users, allApplicationsharing is not available
for appoint-users, only allApplicationsharing is available
*/
    },
    {
      "@cmp-key": "allRtmp",
      "type": "allRtmp"
    }
  ],
  "user": [
    {
      "@cmp-key": "c78b4c59b777463c923e657ce25dba7c", // The same as the uid. The server will return
either cmp-key or entity according to whether or not the user is online
      "@entity": "c78b4c59b777463c923e657ce25dba7c", // The user entity,the same as uid
      "uid": "c78b4c59b777463c923e657ce25dba7c" // The user uid
    },
    {
      "@entity": "250e26de559f75f158d193413b6a8a32" // For the third-party users, the server only returns the
entity value
    }
  ]
},
"appoint-users": { /* The participants who are pinned in the layout. You should select participants (appoint-
users) from the list of the selected participants(source-users). If you delete one participant in source-users, you should
delete the participant in appoint-users corresponding to the deleted source-users
In the video layout of SpeechExcitation(2+N), you should at least pin a participant to the layout.
In the video layout of Exclusive, you should pin a participant (only one participant) to the layout.*/

  "appoint-view": [ // According to the layout mode, you can pin multiple participants to the layout

```

```

{
  "@view-number": 1, //Set a number to the position with a participant pinned to. For the large video image
of the video layout of Exclusive and SpeechExcitation(1+N), it is 1 by default. For the video layout of
SpeechExcitation(2+N), you can set 1 and 2 to the large video images
  "view-number": 1, // The same as @view-number
  "v-user": [ //You can pin v-user or a user to a position
    {
      "@cmp-key": "allApplicationssharing", // The same as type
      "type": "allApplicationssharing" // For appoint-users, only allApplicationssharing is available
    }
  ],
},
{
  "@view-number": 2, //Set a number to the position with a participant pinned to. For the large video
image of the video layout of Exclusive and SpeechExcitation(1+N), it is 1 by default. For the video layout of
SpeechExcitation(2+N), you can set 1 and 2 to the large video images
  "view-number": 2, // The same as @view-number
  "user": {
    "@entity": "2224390b7333e6eb8999ddd4e15896ba", // The entity of the user pinned to a position
    "@cmp-key": "", // The same as the user uid
    "display-text": 2, // The user display name
    "uid": "" // The user uid, third-party users do not have uid
  }
},
{
  "@view-number": 3, //Set a number to the position with a participant pinned to. For the large video
image of the video layout of Exclusive and SpeechExcitation(1+N), it is 1 by default. For the video layout of
SpeechExcitation(2+N), you can set 1 and 2 to the large video images
  "view-number": 3, // The same as @view-number
  "user": {
    "@entity": "01ceee7db5cc487085356acc99604a9b", // The entity of the user pinned to a position
    "@cmp-key": "d3321ee3331e4e108120f8228ee6ce92", // The same as the user uid
    "display-text": 9100, // The display name of the user
    "uid": "d3321ee3331e4e108120f8228ee6ce92" // The user uid, third-party users do not have uid
  }
}
]
},
"errors": null
}

```


3.3.5.4 Editing the Parameters of the Broadcasting Layout

Request URL:

- POST: /conference/control/{controlId}/layout/broadcast

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-------------------------|---------|----------|--------|---|
| broadcast | Array | Yes | | The parameter of the broadcasting Layout. |
| @id | Integer | Yes | | The layout ID, passed according to ID of the broadcasting layout when you control the conference. |
| enabled | Boolean | Yes | | Enable the layout or not. |
| display-text | String | No | 100 | The display name. |
| video-round-enabled | Boolean | Yes | | Enable the video carousel or not. |
| video-speech-ex-enabled | Boolean | Yes | | Enable the voice-activated speaker or not. |
| video-layout | String | Yes | | The type of the broadcasting Layout. |
| video-max-view | Integer | Yes | | The maximum number of the video images in the layout. |
| video-big-view | Integer | Yes | | The number of large video images in the layout. |
| video-round-number | Integer | Yes | | The number of video images in the carousel. |
| video-big-round | Boolean | No | | Enable the video carousel with large video images or not. |
| video-big-position | String | No | | The display position of the large video image in the 2+N layout, one of medium or top. |
| source-users | Array | No | | The selected participants to be pinned in the broadcasting layout. |
| target-users | Array | No | | The user whom the broadcasting layout is applied to. |
| appoint-users | Array | No | | The user who is pinned in the broadcasting layout. |

- **Example Request:**

```

{
  "broadcast" : [           // Specify the template ID to modify the layout
    {
      "@id": 204,           // The template ID of the broadcasting layout. You can use it to edit a specific template.
    }
  ]
}

```

Now, we provide 4 templates which are independent of each other

```

  "enabled": true,           //Enable this template or not
  "display-text": "",        //Display the name
  "video-round-enabled": true, //Enable the video carousel or not
  "video-speech-ex-enabled": false, //Enable the voice-activated speaker or not
  "video-layout": "Equality", //The broadcasting layout, one of Equality, SpeechExcitation(including 1+N mode
                              and 2+N mode), or Exclusive
  "video-max-view": 16,     /*The maximum number of video images
                              In the video layout of Equality(N*N), it can be 4, 9, 16, 25, 36, and 49
                              In the video layout of SpeechExcitation(1+N), it can be 1, 5, 8, 10, 13, 17, and 21
                              In the video layout of SpeechExcitation(2+N), it can be 10 only
                              In the video layout of Exclusive, it can be 1 only
                              */
  "video-big-view": 1,      /*The number of large video images
                              In the video layout of SpeechExcitation(1+N), it is 1
                              In the video layout of SpeechExcitation(2+N), it is 2 and you should at least pin a participant to the layout.
                              */
  "video-round-number": 1,  //The number of video images in the carousel, it cannot be more than the number in
                              video-max-view
  "video-big-round": false, //Enable the video carousel with large video images or not
  "video-big-position": "medium", //The display position of the large video image in the 2+N layout, one of medium
                              or top
  "source-users": {         // The selected participants to be pinned to the layout.
    "v-user": [
      {
        "@cmp-key": "allCastviewer", // The same as type
        "type": "allCastviewer"      /*The type can be the following:
        1. allPresenter: all the moderators
        2. allAttendee: all the conference participants
        3. allApplicationsharing: all the shared contents
        4. allCastviewer: all the broadcasting parties
        5. allRtmp: all the RTMP users
        6. allRecord: all the recording users

        Note that, for source-users, allCastviewer, allRtmp, and allRecord are not available
        for target-users, allApplicationsharing is not available
        for appoint-users, only allApplicationsharing is available
        */
      },
      {
        "@cmp-key": "allRtmp",
        "type": "allRtmp"
      }
    ],
    "user": [
      {
        "@entity": "c78b4c59b777463c923e657ce25dba7c", // The user entity,the same as uid
        "uid": "c78b4c59b777463c923e657ce25dba7c"      // The user uid
      }
    ],
  }
}

```

```

    {
      "@entity": "250e26de559f75f158d193413b6a8a32" //For the user invited by the third-party, the server only
returns the entity value
    }
  ],
  "target-users": { // The participants who the broadcasting layout is applied to
    "v-user": [
      {
        "@cmp-key": "allCastviewer", // the same as type
        "type": "allCastviewer" /*The type can be the following:
1. allPresenter: all the moderators
2. allAttendee: all the conference participants
3. allApplicationsharing: all the shared contents
4. allCastviewer: all the broadcasting parties
5. allRtmp: all the RTMP users
6. allRecord: all the recording users

Note that, for source-users, allCastviewer, allRtmp, and allRecord are not available
for target-users, allApplicationsharing is not available
for appoint-users, only allApplicationsharing is available
*/
      },
      {
        "@cmp-key": "allRtmp",
        "type": "allRtmp"
      }
    ],
    "user": [
      {
        "@entity": "c78b4c59b777463c923e657ce25dba7c", // The user entity,the same as uid. Passing either the
entity or the uid is acceptable
        "uid": "c78b4c59b777463c923e657ce25dba7c" // The user uid
      },
      {
        "@entity": "250e26de559f75f158d193413b6a8a32" // For the third-party user, the server only returns the
entity value
      }
    ]
  },
  "appoint-users": { /*The participants who are pinned in the layout. You should select participants (appoint-
users) from the list of the selected participants(source-users). If you delete one participant in source-users, you should
delete the participant in appoint-users corresponding to the deleted source-users
In the video layout of SpeechExcitation(2+N), you should at least pin a participant to the layout.
In the video layout of Exclusive, you should pin a participant (only one participant) to the layout.*/
    "appoint-view": [ // According to the layout mode, you can pin multiple participants to the layout
      {
        "@view-number": 1, //Set a number to the position with a participant pinned to. For the large video image
of the video layout of Exclusive and SpeechExcitation(1+N), it is 1 by default. For the video layout of
SpeechExcitation(2+N), you can set 1 and 2 to the large video images
        "view-number": 1, // The same as @view-number
        "v-user": [ // You can pin v-user or a user to a position

```

```

    {
      "@cmp-key": "allApplicationssharing", // The same as type
      "type": "allApplicationssharing"    // For v-user, only allApplicationssharing is supported
    }
  ],
  {
    "@view-number": 2,    //Set a number to the position with a participant pinned to. For the large video
    // image of the video layout of Exclusive and SpeechExcitation(1+N), it is 1 by default. For the video layout of
    // SpeechExcitation(2+N), you can set 1 and 2 to the large video images
    "view-number": 2,    // The same as @view-number
    "user": {
      "@entity": "2224390b7333e6eb8999ddd4e15896ba", // The entity of the user pinned to the layout. You
    // can pass the either the entity or the uid
      "uid": ""    // THE user uid, you can also pass the entity
    }
  }
]
}
}
]
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

3.3.6 Operations on the Recording

3.3.6.1 Obtaining the List of Recording File

Note: now we only support obtaining the list on Xuding recording server

Request URL:

- GET: /conference/control/{controlId}/record/list

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "ret": 2,
    "data": {

```

```

"skip": null,
"limit": null,
"total": 0,
"autoCount": false,
"orderbys": [
  {
    "field": "createTime",
    "order": -1
  }
],
"data": [
  {
    "createTime": 1533002657496,
    "modifyTime": 1533002657496,
    "deleted": false,
    "_id": "c9507cecc2504107a272d6ba1a2d7bb5",
    "conferenceRecordId": "02dd9b892ac747bfa35ca5061d65d598",
    "recordingFileName": "http://124.72.94.27:80/ss/file/download/[in]test[2018-07-31-10-08-32].mp4\n", //The path for storing the recording files
    "conferenceSubject": "api",
    "enterpriseld": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "recordingTime": 1443,
    "id": "c9507cecc2504107a272d6ba1a2d7bb5"
  },
  {
    "createTime": 1533001085622,
    "modifyTime": 1533001085622,
    "deleted": false,
    "_id": "935ba8eadc44495a946c5039700b93fa",
    "conferenceRecordId": "02dd9b892ac747bfa35ca5061d65d598",
    "recordingFileName": "http://124.72.94.27:80/ss/file/download/[in]test[2018-07-31-10-06-03].mp4\n",
    "conferenceSubject": "api",
    "enterpriseld": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "recordingTime": 18,
    "id": "935ba8eadc44495a946c5039700b93fa"
  }
],
"key": null,
"conferenceRecordId": "02dd9b892ac747bfa35ca5061d65d598",
"enterpriseld": "f4a4a4ee02ac4bb8875bbd08e03d4de0"
},
"error": null
},
"errors": null
}

```

3.3.6.2 Obtaining the Recording Status

Request URL:

- GET: /conference/control/{controllId}/record/status

Request Parameter:

None

Example of Successful Response:

- When you enable recording

```
{
  "ret": 1,
  "data": {
    "recordType": "default", //The recording type, one of default or invite
    "recordStatus": "recording",
    "recordLastStopDuration": 148, //The duration of the recording, does not include the time when pausing the recording
    "recordLastStartTime": "2018-07-31 02:47:54"
  },
  "errors": null
}
```

- When you do not enable recording

```
{
  "ret": -1,
  "data": null,
  "errors": {
    "errorCode": 400,
    "msg": "record is not running"
  }
}
```

3.3.6.3 Obtaining the Recording Status of the Specified Users**Request URL:**

- GET: /conference/control/{controlId}/record/status/{entity}

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "recordType": "default", //The recording type, one of default or invite
    "recordStatus": "recording",
    "recordLastStopDuration": 0, //The duration of the recording, does not include the time when pausing the recording
    "recordLastStartTime": "2018-07-31 03:41:02"
  },
  "errors": null
}
```

3.3.6.4 Obtaining the User Information

Request URL:

- GET: /conference/control/{controlId}/record/user

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "@state": "full",
    "@participant-count": 1, //The number of recording users
    "user": { //The user information
      "@entity": "lw6ngPxtSOAVj4oXzmCipCAvBYO6Z9S",
      "@state": "full",
      "display-text": "Recording",
      "record-type": "default", //One of default or invite
      "record-status": "recording", //The recording status, one of pending, recording, on-hold, or stop
      "record-last-stop-duration": 148, //The duration of the last time you pause/stop the recording(seconds)
      "record-last-start-time": "2018-07-31 02:47:54", //The time at the last time you start/resume the recording
      "record-server-type": // The type of the recording server, one of third-party, frontend, and backend
      "uid": "",
      "protocol": "",
      "ip": "",
      "phone": "",
      "user-agent": "",
      "roles": {
        "entry": [
          {
            "#text": "attendee",
            "@entity": "permission"
          },
          {
            "#text": "audience",
            "@entity": "demostate"
          }
        ]
      }
    }
  }
}
```

```

    },
    "endpoint": [
      {
        "@entity": "0539cebe-b12c-0271-456a-d651f89f234e",
        "@state": "full",
        "@session-type": "audio-video",
        "status": "connected",
        "joining-method": "dialed-out",
        "joining-info": {
          "when": "2018-07-31 02:44:21"
        },
        "mcu-call-id": "lw6ngPxtSOAVj4oXzmCipCAvBYO6Z9S",
        "media": [
          {
            "@id": 1,
            "type": "audio",
            "label": "main-audio",
            "status": "sendrecv",
            "media-ingress-filter": {
              "#text": "block",
              "@blockby": "server"
            }
          },
          {
            "@id": 2,
            "type": "video",
            "label": "main-video",
            "status": "sendrecv"
          }
        ]
      },
      {
        "@entity": "f953720e-e6ca-f1cf-a526-081f2b3aaac3",
        "@state": "full",
        "@session-type": "focus",
        "status": "connected",
        "joining-method": "dialed-in",
        "joining-info": {
          "when": "2018-07-31 02:44:21"
        }
      }
    ],
    "errors": null
  }

```

3.3.6.5 Starting the Recording

Request URL:

- POST: /conference/control/{controlId}/record/start

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|----------------|--------|----------|--------|--|
| version | String | Yes | | The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21. |
| requestUri | String | No | | Parameter of V20, the recording uri. |
| displayText | String | No | | Parameter of V20, the display name. |
| type | String | No | | The recording type. It is required when you use V21. |
| recordFileName | String | No | | Parameter of V21, the name of the generated recording file. |

Example Request:

- Example request of V20 (if you do not pass all the parameter, the default recording will start)

```
{
  "version": "V20", // The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21
  "requestUri": "h323:124.72.94.27##T_fe0571c797(3333T_fe0571c797)", //Parameter of V20. It is not required. It uses
the default recording system if it is not configured
  "displayText": "xxxx", //The display name, parameter of V20. It uses the default display name if it is not configured
}
```

- Example request of V21

```
{
  "version": "V21", // The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21
  "type": "frontend", //The recording type, parameter of V21. one of frontend and backend
  "recordFileName": " " //The file name of the generated recording file, parameter of V21. If you do not configure the file
name, the server will generate the file name by default.
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "NzM5NTI=" //The conference entity
    },
    "user": {
      "@entity": "pNSKSksaAP72CrtCCW1Zc9jae0E8slk" //The user entity
    }
  },
  "errors": null
}
```

3.3.6.6 Pausing the Recording

Request URL:

- POST: /conference/control/{controlId}/record/pause

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|--|
| userEntity | String | No | | The entity of the recording user. |
| version | String | No | | The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21. |

- **Example Request:**

```
{
  "version": "V20", // The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21
  "userEntity": "mGTMAWHW590F86a2Acl2HEFDMQiDLej" // For V20, you can not specify the userEntity, and then it
  means the default user. For V21, you need to specify users and you need to pass the userEntity
}
```

- If you do not specify a participant, the server will pause the recording of the default recording user.

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "NzM5NTI="
    },
    "user": {
      "@entity": "pNSKSksaAP72CrtCCW1Zc9jae0E8slk",

```

```

    "record-type": "default", //One of default or invite
    "record-status": "on-hold",
    "record-last-stop-duration": 166,
    "record-last-start-time": "2018-07-31 03:24:22"
  }
},
"errors": null
}

```

3.3.6.7 Resuming the Recording

Request URL:

- POST: /conference/control/{controlId}/record/resume

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|--|
| userEntity | String | No | | The user entity. |
| version | String | No | | The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21. |

- **Example Request:**

```

{
  "version": "V20", // The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21
  "userEntity": "mGTMAWHW590F86a2Acl2HEFDMQiDLej" // For V20, you can not specify the userEntity, and then it
means the default user. For V21, you need to specify users and you need to pass the userEntity
}

```

- If you do not specify a participant, the server will resume the recording of the default recording user.

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "NzM5NTI="
    },
    "user": {
      "@entity": "pNSKSksaAP72CrtCCW1Zc9jae0E8slk",
      "record-type": "default", //One of default or invite
      "record-status": "recording",
      "record-last-stop-duration": 166,
      "record-last-start-time": "2018-07-31 03:27:50"
    }
  }
}

```

```

},
"errors": null
}

```

3.3.6.8 Stopping the Recording

Request URL:

- POST: /conference/control/{controlId}/record/stop

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|--|
| userEntity | Array | No | | The entity of the recording user. |
| version | String | No | | The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21. |

- **Example Request:**

```

{
  "version": "V20", // The version number. If you use YMS2.0, it is V20; if you user YMS2.1, it is V21
  "userEntity": [
    "mGTMAWHW590F86a2Acl2HEFDMQiDLej" // For V20, you cannot specify the userEntity, and then it means the
    default user. For V21, you need to specify users and you need to pass the userEntity
  ]
}

```

- If you do not specify a participant, the server will stop the recording of the default recording user and it can stop the recordings of multiple users.

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "NzM5NTI="
    },
    "user": {
      "@entity": "B4ALK701PWBoHJwaEnhiFBP8DJPDbu2",
      "record-type": "default",
      "record-status": "stop",
      "record-last-stop-duration": 11,
      "record-last-start-time": "2018-07-31 03:30:18"
    }
  },
  "errors": null
}

```

3.3.7 Operations on the Roll Call

3.3.7.1 Setting the Roll Call List

Request URL:

- POST: /conference/control/{controlId}/rollcall/apply

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| user | Array | Yes | | The user whose name need calling on the list. |
| @entity | String | Yes | | The user entity. |
| uid | String | No | | The user staffId. |

- Example Request:

```
{
  "user" : [
    {
      "@entity" : "c78b4c59b777463c923e657ce25dba7c", //The user entity
      "uid" : "c78b4c59b777463c923e657ce25dba7c" //The user uid
    },
    {
      "@entity" : "da35cdf96c03af58b944f6d983c86a13" // You can set multiple users at one time
    }
  ]
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.7.2 Starting the Roll Call

Request URL:

POST: /conference/control/{controlId}/rollcall/start

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|--|
| type | String | Yes | | The roll call type. |
| interval | Integer | Yes | | The roll call interval. |
| user | Array | Yes | | The user whose name need calling out on the list. For the manual roll call, this parameter is required and you can only call out the name of one participant on the list for one time. |
| @entity | String | Yes | | The user entity. |
| uid | String | No | | The user staffid. |

- **Example Request:**

```
{
  "type": "automatic/manual", //The roll call type, one of automatic or manual
  "interval": 5,             // Th e roll call interval, from 1 to 3600 seconds
  "user": [                  // For manual roll call, one participant at one time. The user entity is required
    {                        // Automatically roll call is only available to the user with a user account, not including the third-
      "@entity": "xxxxxx",   // For automatic roll call, you only need to set the roll cal list before making the roll call; for
                             // the manual roll call, you need to specify either the user entity or the user uid. If the user has the entity and the uid, you
                             // need to pass both of them
      "uid": "xxxxxx"
    }
  ]
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.7.3 Pausing the Roll Call**Request URL:**

- POST: /conference/control/{controlId}/rollcall/pause

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.7.4 Resuming the Roll Call

Request URL:

- POST: /conference/control/{controlId}/rollcall/resume

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.7.5 Ending the Roll Call

Request URL:

- POST: /conference/control/{controlId}/rollcall/stop

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.7.6 Resetting the Roll Call

Request URL:

- POST: /conference/control/{controlId}/rollcall/reset

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.7.7 Obtaining the Roll Call Status**Request URL:**

- GET: /conference/control/{controlId}/rollcall/status

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "roll-call": { //The roll call status, you should obtain it in real time during the roll call
      "type": "automatic", //The roll call type, one of automatic or manual
      "status": "finish", //The roll call status, one of pending, finish, or ready
      "interval": 5, //The roll call interval
      "start-time": "2018-07-19 07:35:06", //The start time of the roll call
      "end-time": "2018-07-19 07:35:21", //The end time of the roll call
      "roll-call-list": { //The list you set for the roll call
        "user": [
          {
            "@entity": "2c06ca064c5e45128c151b091f11c5c2", //The user entity
            "uid": "2c06ca064c5e45128c151b091f11c5c2", //The user uid
            "display-text": "10001", //The display name
            "status": "absence", //The roll call status, one of absence, attendant, or unknown. You should obtain it in
            real time during the roll call when the roll call is finished, the roll call status becomes unknown
            "when": "2018-07-19 07:35:06" //The time when a participant name is called out on the list
          },
          {
            "@entity": "68bbd0e506564645a95ecf98efab2682",
            "uid": "68bbd0e506564645a95ecf98efab2682",
            "display-text": "10002",
            "status": "absence",
            "when": "2018-07-19 07:35:11"
          },
          {
            "@entity": "65b16375b2204f08ae1b4260886cefd6",
            "uid": "65b16375b2204f08ae1b4260886cefd6",
            "display-text": "10003",
            "status": "absence",

```



```

        "when": "2018-07-19 07:35:16"
      }
    ]
  }
},
"errors": null
}

```

3.3.7.8 Obtaining the Roll Call Result

Request URL:

- GET: /conference/control/{controlId}/rollcall/result

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [
    { //During the conference, the result of each roll call will be saved
      "createTime": 1531985721262,
      "modifyTime": 1531985721262,
      "deleted": false,
      "_id": "8d87433f27654d79bded0702648f8e08", //The ID of the roll call result
      "conferenceRecordId": "d4e35cfc016c4c95924c2a41861b7f5e",
      "rollCallResults": [
        {
          "uid": "2c06ca064c5e45128c151b091f11c5c2", //The user uid
          "userName": "9001",
          "userEntity": "2c06ca064c5e45128c151b091f11c5c2", //The user entity
          "status": "Absent", //The roll call result
          "callDate": 1531985706000,
          "name": "10001"
        },
      ],
      "rollCallType": null,
      "frequency": null,
      "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "id": "8d87433f27654d79bded0702648f8e08"
    }
  ],
  "errors": null
}

```

3.3.7.9 Obtaining the Roll Call List

Request URL:

- GET: /conference/control/{controlId}/rollcall/list

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "user": [ //The user in the list is the same as the user in the interface of obtaining the roll call status
      {
        "@entity": "da35cdf96c03af58b944f6d983c86a13", //The user entity
        "uid": "", //The user uid, third-party users do not carry this parameter
        "display-text": "123",
        "status": "unknown",
        "when": "1970-01-01 00:00:00" //The time when a participant name is called out on the list
      }
    ]
  },
  "errors": null
}
```

3.3.8 Operations on the Messages

3.3.8.1 Obtaining the Parameters of the Banner

Request URL:

- GET: /conference/control/{controlId}/banner

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "enabled": true, //Enable the banner or not
    "display-text": "横幅内容", //The display text
    "position": "medium", //One of top, medium, or bottom
    "font-size": "default", //The font size, one of default, medium, or big
    "font-color": "white", //The font color, one of white, yellow, blue, red, or black
    "bottom-color": "red", //The background color of the banner, one of red, yellow, or blue
  },
  "errors": null
}
```

3.3.8.2 Editing the Parameters of the Banner

Request URL:

- POST: /conference/control/{controlId}/banner

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------|---------|----------|--------|-------------------------------------|
| enabled | Boolean | Yes | | Enable the banner or not. |
| display-text | String | Yes | | The banner text. |
| position | String | Yes | | The display position. |
| font-size | String | No | | The font size. |
| font-color | String | No | | The font color. |
| bottom-color | String | No | | The background color of the banner. |

- **Example Request:**

```
{
  "enabled": true, //Enable the banner or not
  "display-text": "横幅内容",
  "position": "medium", //One of top, medium, or bottom
  "font-size": "default", //The font size, one of default, medium, or big
  "font-color": "white", //The font color, one of white, yellow, blue, red, or black
  "bottom-color": "red", //The background color of the banner, one of red, yellow, or blue
}
```

- If you modify the parameters of the banner, you might also modify the pre-configured parameter of the banner at the same time. The modified parameters take effect immediately.

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.8.3 Obtaining the Parameters of the Pre-Configured Banner**Request URL:**

- GET: /conference/control/{controlId}/banner/preset

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "enabled": true, //Enable the banner or not
    "display-text": "横幅内容",
    "position": "medium", //One of top, medium, or bottom
    "font-size": "default", //The font size, one of default, medium, or big
    "font-color": "white", //The font color, one of white, yellow, blue, red, or black
    "bottom-color": "red", //The background color of the banner, one of red, yellow, or blue
  },
  "errors": null
}
```

3.3.8.4 Editing the Parameters of the Pre-Configured Banner**Request URL:**

- POST: /conference/control/{controlId}/banner/preset

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------|---------|----------|--------|-------------------------------------|
| enabled | Boolean | Yes | | Enable the banner or not. |
| display-text | String | Yes | 200 | The banner text. |
| position | String | Yes | | The display position. |
| font-size | String | No | | The font size. |
| font-color | String | No | | The font color. |
| bottom-color | String | No | | The background color of the banner. |

- **Example Request:**

```
{
  "enabled": true, //Enable the banner or not
  "display-text": "横幅内容",
  "position": "medium", //One of top, medium, or bottom
  "font-size": "default", //The font size, one of default, medium, or big
  "font-color": "white", //The font color, one of white, yellow, blue, red, or black
  "bottom-color": "red", //The background color of the banner, one of red, yellow, or blue
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.8.5 Obtaining the Parameters of the Pre-Configured Subtitle**Request URL:**

- GET: /conference/control/{controlId}/barrage/preset

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "enabled": true,      //Enable the subtitle or not
    "type": "Static",    //The subtitle type, one of Static or Dynamic
    "display-text": "字幕内容", //The subtitle is not saved after sending
    "position": "medium", // One of top, medium, or bottom
    "repeat-count": 2,    //The repeat times, it can be any value from 1 to 20. It is only available to dynamic subtitle
    "repeat-interval": 3, //The repeat interval, it can be any value from 1 to 3600. It is only available to dynamic
    subtitle
    "display-time": 6,    //The display duration, it can be any value from 1 to 3600. It is only available to static subtitle
    "roll-direction": "R2L", //The roll direction of the dynamic subtitle. For the dynamic subtitle, one of R2L or L2R
    "font-size": "default", //The font size, one of default, medium, or big
    "font-color": "white", // The font color, one of white, yellow, blue, red, or black
    "target-users": {
      "v-user": {
        "type": "allRtmp" // Apply this subtitle to all RTMP users(allRtmp) or not
      },
      "user" : [
        {
          "@entity": "用户entity", //Both the uid and the entity need to be passed
          "uid": "用户uid"        // If the user joins the conference by IP call, only the entity is returned except the uid
        }
      ]
    }
  ],
  "errors": null
}
```

3.3.8.6 Editing the Parameters of the Pre-Configured Subtitle

Request URL:

- POST: /conference/control/{controlId}/barrage/preset

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------------|---------|----------|--------|---|
| enabled | Boolean | Yes | | Enable the subtitle or not. |
| type | String | Yes | | The subtitle type. |
| display-text | String | Yes | 100 | The subtitle text. |
| position | String | Yes | | The display position. |
| repeat-count | Integer | Yes | | The repeat times. |
| repeat-interval | Integer | Yes | | The repeat interval. |
| display-time | Integer | Yes | | The display duration. |
| roll-direction | String | Yes | | The direction. |
| font-size | String | No | | The font size. |
| font-color | String | No | | The font color. |
| target-users | Array | No | | The users whom this subtitle is applied to. |
| v-user | Array | No | | Apply this subtitle to all RTMP users (allRtmp) or not. |
| type | String | No | | The users whom this subtitle is applied to. |
| @entity | String | No | | The user entity. |
| uid | String | No | | The user staffId. |

- **Example Request:**

```
{
  "enabled": true, //Enable the subtitle or not.
  "type": "Static", //The subtitle type, one of Static or Dynamic
  "display-text": "字幕内容", //The subtitle text, it is not saved after sending
  "position": "medium", //The display position, one of top, medium, or bottom
  "repeat-count": 2, //The repeat times, it can be any value from 1 to 20. It is only available to dynamic subtitle
  "repeat-interval": 3, //The repeat interval, it can be any value from 1 to 3600. It is only available to dynamic subtitle
  "display-time": 6, //The display duration, it can be any value from 1 to 3600. It is only available to static subtitle
}
```

```

"roll-direction": "R2L", //The direction of the dynamic subtitle, one of R2L or L2R
"font-size": "default", //The font size, one of default, medium, or big
"font-color": "white", //The font color, one of white, yellow, blue, red, or black
"target-users": {
  "v-user": {
    "type": "allRtmp" // Apply to all RTMP users or not
  },
  "user": [
    {
      "@entity": "用户entity", //Both the uid and the entity need to be passed
      "uid": "用户uid" //If the user joins the conference by IP call, only the entity is returned except the uid
    }
  ]
}
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

3.3.8.7 Sending the Subtitle

Request URL:

- POST: /conference/control/{controlId}/barrage

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------------|---------|----------|--------|---|
| type | String | Yes | | The subtitle type. |
| display-text | String | Yes | | The subtitle text. |
| position | String | Yes | | The display position. |
| repeat-count | Integer | Yes | | The repeat times. |
| repeat-interval | Integer | Yes | | The repeat interval. |
| display-time | Integer | Yes | | The display duration. |
| roll-direction | String | Yes | | The direction. |
| font-size | String | No | | The font size. |
| font-color | String | No | | The font color. |
| target-users | Array | No | | The users whom this subtitle is applied to. |
| v-user | Boolean | No | | Apply this subtitle to all RTMP users (allRtmp) or not. |
| user | Array | No | | The user information. |
| @entity | String | Yes | | The user entity. |
| uid | String | No | | The user staffId. |

- **Example Request:**

```
{
  "type": "Static", //The subtitle type, one of Static or Dynamic
  "display-text": "字幕内容", //The subtitle text, it is not saved after sending
  "position": "medium", // One of top, medium, or bottom
  "repeat-count": 2, //The repeat times, it can be any value from 1 to 20. It is only available to dynamic subtitle
  "repeat-interval": 3, //The repeat interval, it can be any value from 1 to 3600. It is only available to dynamic subtitle
  "display-time": 6, //The display duration, it can be any value from 1 to 3600. It is only available to static subtitle
  "roll-direction": "R2L", //The direction of the dynamic subtitle, one of R2L or L2R
  "font-size": "default", //The font size, one of default, medium, or big
  "font-color": "white", //The font color, one of white, yellow, blue, red, or black
  "target-users": {
    "v-user": {
      "type": "allRtmp" // Apply to all RTMP users or not
    }
  },
  "user" : [
    {
      "@entity" : "xxx", //Both the uid and the entity need to be passed

      "uid" : "xxx" //If the user joins the conference by IP call, only the entity is returned except the uid
    }
  ]
}
```



```

    }
  ]
}
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": null,
  "errors": null
}

```

3.3.8.8 Disabling the Subtitle

Request URL:

- POST: /conference/control/{controlId}/barrage/disable

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "NzM5NTI="
    }
  },
  "errors": null
}

```

3.3.8.9 Obtaining the Parameters of the Pre-Configured Agenda

Request URL:

- GET: /conference/control/{controlId}/procedure/preset

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "enabled": false, //Enable the agenda or not

    "procedure-infos": {

```

```

    "procedure-info": [ //Now, only 12 agendas are available
      {
        "@id": 1, //The agenda ID, it can be any value from 1 to 12. If you configure two agendas with the same
        //number, the two agenda will get the same ID, but the later agenda will display in the video image
        "active": true, //The agenda is ongoing or not
        "display-text": "123" //The agenda text
      }
    ]
  },
  "errors": null
}

```

3.3.8.10 Editing the Parameter of the Pre-Configured Agenda

Request URL:

- POST: /conference/control/{controlId}/procedure/preset

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|---------------------|---------|----------|--------|--|
| enabled | Boolean | No | | Enable the agenda or not. |
| procedure- infos | Object | Yes | | The agenda parameter. |
| procedure- info | Array | Yes | | The agenda information. |
| @id | Integer | Yes | | The agenda number, it can be any value from 1 to 12. |
| active | Boolean | Yes | | The agenda is ongoing or not. |
| display-text | String | Yes | 12 | The agenda text. |

- **Example Request:**

```

{
  "enabled": false, //Enable the agenda or not
  "procedure-infos": {
    "procedure-info": [      //Now, only 12 agendas are available
      {
        "@id": 1, //The agenda ID, it can be any value from 1 to 12. If you configure two agendas with the same
        //number, the two agenda will get the same ID, but the later agenda will display in the video image
        "active": true, //The agenda is ongoing or not
        "display-text": "123" //The agenda text
      }
    ]
  }
}

```

3.3.8.11 Sending the Agenda

Request URL:

- POST: /conference/control/{controlId}/procedure

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------------|---------|----------|--------|-------------------------------|
| enabled | Boolean | No | | Enable the agenda or not. |
| procedure-infos | Object | Yes | | The agenda parameter. |
| procedure-info | Array | Yes | | The agenda information. |
| @id | Integer | Yes | | The agenda ID. |
| active | Boolean | Yes | | The agenda is ongoing or not. |
| display-text | String | Yes | | The agenda text. |

- **Example Request:**

```
{
  "enabled": false, //Enable the agenda or not
  "procedure-infos": {
    "procedure-info": [    //Now, only 12 agendas are available
      {
        "@id": 1, //The agenda ID, it can be any value from 1 to 12. If you configure two agendas with the same
        number, the two agenda will get the same ID, but the later agenda will display in the video image
        "active": true, //The agenda is ongoing or not
        "display-text": "123" //The agenda text
      }
    ]
  }
}
```

3.3.9 Operations on the Lobby

3.3.9.1 Obtaining the Parameters of the Lobby

Request URL:

- GET /conference/control/{controlId}/lobby

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "locked": false, //The conference is locked by the organizer. This parameter defaults to disabled
    "admissionPolicy": "anonymous", /*The conference is locked or not
      When the value is anonymous, the conference is not locked and anyone can join the conference
      When the value is closedAuthenticated or openAuthenticated, the conference is locked and only a part of
      participants can join the conference
      closedAuthenticated: the moderator and the invited person can join the conference
      openAuthenticated: the person in the same federation or domain with the organizer can join the conference
    */
    "attendeeLobbyBypass": true, //When it is false, the participants go to the lobby when calling into the conference,
    otherwise, they join the conference directly
    "autopromote": 0 /*Who can be the moderator when they join the conference, see below:
      1) None: the moderator is specified by the conference organizer
      2) Everyone: 2147483648, the default value, converting into binary is 0x80000000(bit 31)
      3)Company(in the same federation or domain): 32768, converting into binary is 0x00008000(bit 15)
    */
  },
  "errors": null
}
```

3.3.9.2 Editing the Parameters of the Lobby

Request URL:

- POST: /conference/control/{controlId}/lobby/apply

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|---------------------|---------|----------|--------|--|
| locked | Boolean | Yes | | The conference is locked by the organizer. This parameter defaults to disabled. |
| admissionPolicy | String | Yes | | The type of participant allowed to join the conference. |
| attendeeLobbyBypass | Boolean | Yes | | It means whether or not the participants need to wait before joining the conference. |
| autopromote | Integer | Yes | | The moderator type. |

- **Example Request:**

```
{
  "locked" : false, //The conference is locked by the organizer. This parameter defaults to disabled
  "admissionPolicy" : "anonymous", /*The conference is locked or not
    When the value is anonymous, the conference is not locked and anyone can join the conference
    When the value is closedAuthenticated or openAuthenticated, the conference is locked and only a part of
    participants can join the conference
    closedAuthenticated: the moderator and the invited person can join the conference
    openAuthenticated: the person in the same federation or domain with the organizer can join the conference
  */
  "attendeeLobbyBypass" : true, //When it is false, the participants go to the lobby when calling into the conference,
  otherwise, they join the conference directly
  "autopromote" : 0 /*Who can be the moderator when they join the conference, see below:
    1) None: the moderator is specified by the conference organizer
    2) Everyone: 2147483648, the default value, converting into binary is 0x80000000(bit 31)
    3)Company(in the same federation or domain): 32768, converting into binary is 0x00008000(bit 15)
  */
}
```

3.3.9.3 Obtaining the User Information in the Lobby**Request URL:**

- GET: /conference/control/{controlId}/lobby/user

Request Parameter:

No

Example of Successful Response:

```

{
  "ret": 1,
  "data": [
    {
      // The information of the user in the lobby is the same as the information of the user at the conference. You can
      use the user entity or uid to allow the user to join the conference or remove them from the lobby.
      "@entity": "dd4779e0b4bdf29deb300f8972f7f05f", //The user entity
      "@state": "full",
      "display-text": "123", //The display name of the user
      "uid": "",
      "protocol": "SIP",
      "medium-server-type": "",
      "ip": "10.86.5.141", //The user IP
      "phone": "unauth-web-client",
      "user-agent": "Yealink SIP-WEB 1.2.5 (Chrome 69.0)", //The user agent
      "roles": {
        "entry": [
          {
            "#text": "attendee",
            "@entity": "permission"
          },
          {
            "#text": "audience",
            "@entity": "demostate"
          }
        ]
      }
    },
    {
      "endpoint": [
        {
          "@entity": "a1861e2f-da05-6383-5f14-0474d3f2226f",
          "@state": "full",
          "@session-type": "audio-video",
          "status": "on-hold",
          "joining-method": "dialed-in",
          "joining-info": {
            "when": "2018-07-31 05:19:49"
          },
          "mcu-call-id": "dd4779e0b4bdf29deb300f8972f7f05f",
          "media": [
            {
              "@id": 1,
              "type": "audio", // The audio information
              "label": "main-audio", // The lable name of the audio
              "status": "recvonly",
              "media-ingress-filter": { //It specifies the filter value for the media in the direction from the endpoint to
                the MCU. block is blocking the media from the endpoint, unblock is unblocking the media from the endpoint, and
                unblocking is that the participant is applying for speaking
                "#text": "block", //One of block, unblock or unblocking
                "@operator": "",
                "@blockby": "server" // Operated by the server or by the client
              },
              "media-egress-filter": { //It specifies the filter value for the media in the direction from the MCU to the

```

endpoint. block is blocking the media from the MCU and unblock is unblocking the media from the MCU

```

    "#text": "unblock", // One of block or unblock
    "@operator": ""
  }
},
{
  "@id": 2,
  "type": "video", //The video information
  "label": "main-video", //The label name of the video
  "status": "recvonly",
  "media-ingress-filter": { // The same as the audio information
    "#text": "block",
    "@operator": "",
    "@blockby": "server"
  },
  "media-egress-filter": {
    "#text": "unblock",
    "@operator": ""
  }
},
{
  "@id": 4,
  "type": "application",
  "label": "fecc", //The camera label, which means that the user has a controllable camera, and
  //you can call the interface of controlling cameras to control his camera
  "status": "sendrecv"
}
]
},
{
  "@entity": "52725077-cc4a-724b-c297-61106bc9e891",
  "@state": "full",
  "@session-type": "focus",
  "status": "on-hold",
  "joining-method": "dialed-in",
  "joining-info": {
    "when": "2018-07-31 05:19:49"
  }
}
]
},
{
  "errors": null
}

```

3.3.10 Audio Test

3.3.10.1 Enabling the Audio Test

Request URL:

- POST: /conference/control/{controlId}/echo

Request parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| action | String | Yes | | Enable the audio test or not, one of open or close. |

- Request example

```
{
  "action": "open", //Enable the audio test or not, one of open or close
}
```

Example of Successful Response

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.10.2 Obtaining the Real-Time Data of the Audio Test**Request URL:**

- GET: /conference/control/{controlId}/echo

Request parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "MjlyNDY="
    },
    "start-time": 1564371364016, // The time when you enable the audio test
    "now-time": 1564371368636, // Current time
    "user-volume-list": {
      "user": [ // The returned results of the tested users
        {
          "@entity": "fe92a53baf2eb42f074a7b256f5b6746",
          "uid": "unauth-webrtc-uid",
          "display-text": 123,
          "username": "unauth-web-client",
          "volume": 0,

```



```

        "start-time": "2019-07-29 03:36:05" // The time when you enable the audio test
    }
  ]
}
},
"errors": null
}

```

3.3.10.3 Obtaining the Records of the Audio Test

Request URL:

- GET: /conference/control/{controlId}/echo/record

Request parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [ // The returned records
    {
      "createTime": 1564379233126,
      "modifyTime": 1564379238633,
      "deleted": false,
      "_id": "37d261fd6afa4d2faed0ad36db55f54d",
      "conferenceRecordId": "d98a7f317a324dc69cdb1eb0d26a6dbc",
      "testId": "m5112LCG0zujLB9",
      "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "startTime": 1564379233096,
      "endTime": 1564379238616,
      "testResults": [
        {
          "name": "456",
          "username": "unauth-web-client",
          "volume": 0, // The maximum value
          "startTime": "2019-07-29 05:47:14" // The time when you enable the audio test
        }
      ],
      "id": "37d261fd6afa4d2faed0ad36db55f54d"
    },
    {
      "createTime": 1564379146116,
      "modifyTime": 1564379217491,
      "deleted": false,
      "_id": "f8a75fa63d7043728ff30ab4abe209d7",
      "conferenceRecordId": "d98a7f317a324dc69cdb1eb0d26a6dbc",
      "testId": "vAC387hG0UbnvYM",
      "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "startTime": 1564379146096,
      "endTime": 1564379217456,
      "testResults": [

```

```

    {
      "name": "456",
      "username": "unauth-web-client",
      "volume": 0,
      "startTime": "2019-07-29 05:46:07"
    }
  ],
  "id": "f8a75fa63d7043728ff30ab4abe209d7"
}
],
"errors": null
}

```

3.3.11 Smart Check-in

If you want to use the feature of smart check-in, you need to enable the face recognition service first. When you obtain the parameters of the conference layout, if the parameter `show-speaker-details` is contained in the returned data, the face recognition service is enabled and you can use the smart check-in feature. Otherwise, you cannot use this feature.

3.3.11.1 Obtaining the Pre-Configured Participant List of the Smart Check-in

Request URL:

- GET /conference/control/{controllId}/facial/rollcall/list

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "createTime": 1584366388112,
    "modifyTime": 1584366388112,
    "deleted": false,
    "_id": "00782652f3564b10b211ab9d13e6e323",
    "presetAttendees": [ //The list of the pre-configured participants
      {
        "uid": "CED45877-43C4-D041-9CF0-67BCCA428C47", // The uid of the participant
        "name": "张三" //The participant name
      }
    ],
    "id": "00782652f3564b10b211ab9d13e6e323"
  },
  "errors": null
}

```

3.3.11.2 Setting the Pre-Configured Participant List of the Smart Check-in

Request URL:

- POST /conference/control/{controlId}/facial/rollcall/list

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| users | Array | Yes | | The list of the pre-configured participants. |
| uid | String | Yes | | The uid of the participant. |
| name | String | Yes | | The participant name. |

Example Request:

```
{
  "users": [
    {
      "uid": "12345",
      "name": "Bob"
    },
    {
      "uid": "12346",
      "name": "Ada"
    }
  ],
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": null,
  "errors": null
}
```

3.3.11.3 Obtaining the Status of the Smart Check-in

Request URL:

- GET /conference/control/{controlId}/facial/rollcall/status

Request Parameter:

None

Example of Successful Response:

```
{
  "ret": 1,
```

```

"data": {
  "conferenceKeys": {
    "@confEntity": "MjY3Mjg="
  },
  "running": false,           //The running status of smart check-in, one of true or false. When it is true, the smart
                              //check-in is running
  "start-time": "2020-03-18 02:13:01", //The start time
  "end-time": "2020-03-18 02:13:15", //The end time
  "timeout": 15,              //The time limit, one of 0, 15, 30, 45, 60, 75, or 90. When it is 0, there is no time limit
  "result-list": {
    "result": [
      {
        "face-name": "Bob",      //The user name
        "user-name": "Bob",      //The participant name
        "time": "2020-02-21 08:29:36", //The check-in time
        "status": 0              //The check-in status, one of 0(absence), 1(attendance), 2(not signed in)
      },
      {
        "face-name": "Ada",
        "user-name": "Ada",
        "time": "2020-02-21 08:29:59",
        "status": 0
      }
    ]
  }
},
"errors": null
}

```

3.3.11.4 Obtaining the Records of the Smart Check-in

Request URL:

- GET /conference/control/{controlId}/facial/rollcall/record

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": [ //Returned records of the smart check-in
    {
      "createTime": 1584497595665,
      "modifyTime": 1584497595666,
      "deleted": false,
      "_id": "3e71ba7c34c64586a6836f621ef69790",
      "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "conferenceRecordId": "bda8d4036bee4dd686311de3a119984f",
      "conferenceSubject": "3335的视频会议",
      "startTime": 1584497581952, //The start time
      "endTime": 1584497595652, //The end time
    }
  ]
}

```

```

    "totalSignInNumber": 2,          //The total number of the sign-in participants
    "signInResults": [
      {
        "uid": null,                //The user uid
        "name": "Bob",             //The user name
        "status": 0,               //The check-in status, one of 0(absence), 1(attendance), 2(not signed in)
        "signInTime": 1582797690000, //The check-in time
        "meetingPlace": "xxxxxx"    //The check-in venue name
      },
      {
        "uid": null,
        "name": "Ada",
        "status": 0,
        "signInTime": 0,
        "meetingPlace": ""
      }
    ],
    "id": "3e71ba7c34c64586a6836f621ef69790"
  },
  {
    "createTime": 1584497576871,
    "modifyTime": 1584497576872,
    "deleted": false,
    "_id": "e60abe94bb0f485abd8ea7dd1d2d6772",
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
    "conferenceRecordId": "bda8d4036bee4dd686311de3a119984f",
    "conferenceSubject": "3335的视频会议",
    "startTime": 1584497559592,
    "endTime": 1584497576832,
    "totalSignInNumber": 2,
    "signInResults": [
      {
        "uid": null,                //The user uid
        "name": "Bob",             //The user name
        "status": 0,               //The check-in status, one of 0(absence), 1(attendance), 2(not signed in)
        "signInTime": 1582797690000, //The check-in time
        "meetingPlace": "xxxxxx"    //The check-in venue name
      },
      {
        "uid": null,
        "name": "Ada",
        "status": 0,
        "signInTime": 0,
        "meetingPlace": ""
      }
    ],
    "id": "e60abe94bb0f485abd8ea7dd1d2d6772"
  }
],
"errors": null
}

```

3.3.11.5 Starting the Smart Check-in

Before starting the smart check-in, you need to obtain the current check-in status first to see whether the smart check-in is running or not. If the current check-in is running now, you need to end it first and then call this interface to start another check-in. If not, you can call this interface directly to start a new one.

Request URL:

- POST /conference/control/{controlId}/facial/rollcall/start

Request Parameter:

- **Body Parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|------------------------------------|
| names | Array | Yes | | The list of the participant names. |
| time | Integer | Yes | | The time limit. |

Example Request:

```
{
  "names" : [
    "Ada",    //The participant name
    "Bob"
  ],
  "time" : 15    //The time limit, one of 0, 15, 30, 45, 60, 75, or 90. When it is 0, there is no time limit
}
```

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "MjY3Mjg="
    }
  },
  "errors": null
}
```

3.3.11.5 Ending the Smart Check-in

You can call this interface only when a smart check-in is running.

Request URL:

- POST /conference/control/{controlId}/facial/rollcall/stop

Request Parameter:

None

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "conferenceKeys": {
      "@confEntity": "MjY3Mjg="
    },
    "running": false,           //The running status of smart check-in, one of true or false. When it is true, the
    smart check-in is running
    "start-time": "2020-03-18 03:28:11", //The start time
    "end-time": "2020-03-18 03:33:32",   //The end time
    "timeout": 15,                     //The time limit, one of 0, 15, 30, 45, 60, 75, or 90. When it is 0, there is no time limit
    "result-list": {
      "result": [
        {
          "face-name": "Bob",           //The user name
          "user-name": "Bob",           //The participant name
          "time": "2020-02-21 08:29:36", //The check-in time
          "status": 0                   //The check-in status, one of 0(absence), 1(attendance), 2(not signed in)
        },
        {
          "face-name": "Ada",
          "user-name": "Ada",
          "time": "2020-02-21 08:29:59",
          "status": 0
        }
      ]
    }
  },
  "errors": null
}

```

3.3.12 Examples of Calling the Conference Control Interface

Note: If you want to control a conference, you should have the staffId of the user who has the privilege of controlling this conference.

How to join conference control

1. Call the interface in Section [3.3.1.1](#) to join conference control.
2. Call the interface in Section [3.3.1.4](#) to keep the ctrlld active.

How to obtain the user in the current conference

1. Call the interface in Section [3.3.1.1](#) to join conference control.
2. Call the interface in Section [3.3.1.4](#) to keep the ctrlld active.
3. Call the interface in Section [3.3.2.5](#) or in [3.3.3.1](#) to obtain the number of users, the role of a specific user, the information about the audio and the video and others.

How to obtain the conference information in real time

1. Call the interface in Section [3.3.1.1](#) to join conference control.

2. Call the interface in Section [3.3.1.4](#) to keep the controllId active.
3. Call the interface in Section [3.3.2.11](#) to subscribe to the notification of conference information.
4. Call the interface in Section [3.3.2.11](#) to keep the subscribelId returned by the previous step active.
5. After finishing the above steps, you can receive the notification about the change of the conference information, such as the change of the status, the participant, the participant status and so on.

How to invite users to the conference

1. Call the interface in Section [3.3.1.1](#) to join conference control.
2. Call the interface in Section [3.3.1.4](#) to keep the controllId active.
3. Call the interface in Section [3.3.3.3](#) to invite users.

How to control participants (for example, remove a participant from the conference)

1. Call the interface in Section [3.3.1.1](#) to join conference control.
2. Call the interface in Section [3.3.1.4](#) to keep the controllId active.
3. Call the interface in Section [3.3.2.11](#) to subscribe to the notification of conference information, or call the interface in Section [3.3.3.1](#) to obtain the information of present participants at the conference.

Note that each present participant at the conference has an entity or uid or both of them. The entity or uid is helpful to you if you want to control the participant.

4. Select a participant and call the interface in Section [3.3.3.4](#) to remove this participant from the conference.

How to modify the layout information

1. Call the interface in Section [3.3.1.1](#) to join conference control.
2. Call the interface in Section [3.3.1.4](#) to keep the controllId active.
3. Call the interface in Section [3.3.2.11](#) to subscribe to the notification of conference information, or call the interface in Section [3.3.5.1](#) to obtain the layout parameter of the current conference.
4. Call the interface in Section [3.3.5.2](#) to pass the modified layout parameters.

3.4 Conference Management

3.4.1 Adding Conferences

Request URL:

- POST: /conference/plan/{staffId}/add

Request Parameter:

- **Path Parameter:**
staffId: the user id
- **Body Parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------------|---|---------------------------------|--------|--|
| confType | String | Yes | | The conference type, one of NC (the general conference) or VSC (the video conference). |
| profile | String | Required in video conferences | | The conference mode, one of default (the discussion mode) or demonstrator (the training mode). |
| subject | String | Yes | 1-128 | The conference subject. |
| conferenceTimePattern | ConferenceTimePattern | Yes | | For the conference recurrence, refer to ConferenceTimePattern . |
| roomIds | List<String> | Required in general conferences | | The list of the meeting room ID. |
| participants | List< Participant > | No | | For the list of the participant, refer to Participant . |
| language | String | No | 2 | The language used in the conference invitation email, for more information, refer to Supported Languages . It defaults to Chinese if it is not configured. |
| autoInviteEnable | Boolean | No | | Enable Auto invitation or not, and it defaults to disabled if it is not configured. |
| broadcastEnable | Boolean | No | | Enable the Broadcasting interactive or not. It is only applicable in the training mode conference, and it defaults to disabled if it is not configured. |
| conferenceLiveBroadcast | ConferenceLiveBroadcast | No | | For the parameter of the live broadcasting, refer to ConferenceLiveBroadcast . |
| autoInviteAfterRegEnable | Boolean | No | | Enable the Auto redialing or not, and it defaults to disabled if it is not configured. |
| emailRemark | String | No | 0-1500 | The added information in the email supports RTF (Rich Text Format). |
| plainEmailRemark | String | No | 0-1500 | The added information in the email also supports plain text. |
| password | String | No | 6 | The conference password and it consists of digits. |
| generatePassword | Boolean | No | | Allow YMS to generate a 6-digit password randomly or not when you do not set the password. It defaults to true. |

Note: Auto invitation means that the server will automatically invite the conference participant when the scheduled conference begins.

Example Parameter:

- The general conference

```
{
  "confType": "NC",
  "subject": "预约普通会议",
  "conferenceTimePattern": {
    "conferenceTime": {
```

```

    "startDate": "2018-07-30",
    "startTime": "14:30",
    "endDate": "2018-07-30",
    "endTime": "15:00"
  },
  "zoneId": "China_Standard_Time",
  "recurrencePattern": null,
  "dstConfig": {
    "dstEnable": 0,
    "dayLightDelta": 0
  }
},
"roomIds": ["b405afc8ee5b479cad5411de2c504e7c"],
"emailRemark": "",
"plainEmailRemark": "",
"participants": [{
  "id": "0cc0da1937804e36a3c1e46c1783de01",
  "type": "internal",
  "role": "organizer"
}],
"language": "zh"
}

```

- The video conference

```

{
  "confType": "VSC",
  "profile": "default",
  "subject": "视频会议室",
  "conferenceTimePattern": {
    "conferenceTime": {
      "startDate": "2018-07-30",
      "startTime": "14:30",
      "endDate": "2018-07-30",
      "endTime": "15:00"
    },
    "zoneId": "China_Standard_Time",
    "recurrencePattern": null,
    "dstConfig": {
      "dstEnable": 0,
      "dayLightDelta": 0
    }
  },
  "roomIds": ["27ebbbc5adc6471d92cde62b0d01969f"],
  "emailRemark": "邮件备注",
  "plainEmailRemark": "邮件备注",
  "participants": [{
    "id": "0cc0da1937804e36a3c1e46c1783de01",
    "type": "internal",
    "role": "organizer"
  }],
  "conferenceLiveBroadcast": {

```

```

    "enable": true,
    "definition": "720P",
    "videoSetting": "AVD",
    "description": "RTMP直播详情"
  },
  "autoInviteEnable": true,
  "broadcastEnable": false,
  "autoInviteAfterRegEnable": true,
  "password": "287859",
  "generatePassword": false,
  "language": "zh"
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "conferencePlanId": "dd7a7e5eafc9452283aac76d8325813b", //The conference plan ID
    "conferenceRecordId": "67d6e406d0444336bda18ddd71574641", //For a single conference, it is the conference
    schedule ID. For a recurrence conference, it is the ID of the first conference
    "conferenceNumber": "20113", //The conference number
    "password": "287859" //The conference password
  },
  "error": null
}

```

3.4.2 Deleting Conferences

3.4.2.1 Deleting the Conference Plans

Request URL:

- POST: /conference/plan/{staffId}/delete

Request Parameter:

- **Path parameter:**
staffId: the user id
- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|------------------|--------|----------|--------|--|
| conferencePlanId | String | Yes | 32 | The conference plan ID. |
| language | String | No | 2 | The language used in the conference invitation email. For more information, refer to Supported Languages . It defaults to Chinese if it is not configured. |

Example Parameter:

```
{
  "conferencePlanId": "dd7a7e5eafc9452283aac76d8325813b",
  "language": "zh"
}
```

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.4.2.2 Deleting a Single Conference**Request URL:**

- POST: /conference/record/{staffId}/delete

Request Parameter:

- **Path parameter:**
staffId: the user id
- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------|--------|----------|--------|--|
| conferenceRecordId | String | Yes | 32 | The schedule ID of a single conference. |
| language | String | No | 2 | The language used in the conference invitation email. For more information, refer to Supported Languages . It defaults to Chinese if it is not configured. |

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.4.3 Editing Conferences

3.4.3.1 Editing the Conference Plans

Request URL:

- POST: /conference/plan/{staffId}/edit

Request Parameter:

- **Path parameter:**
staffId: the user id
- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------------|---|---------------------------------|--------|---|
| conferencePlanId | String | Yes | 32 | The conference plan ID. |
| profile | String | Required in video conferences | | The conference mode, one of default (the discussion mode) or demonstrator (the training mode). |
| subject | String | Yes | 1-128 | The conference subject. |
| conferenceTimePattern | ConferenceTimePattern | Yes | | For the conference recurrence, refer to ConferenceTimePattern . |
| roomIds | ListString | Required in general conferences | | The ID list of the meeting room. |
| participants | List Participant | No | | For the list of the participant, refer to Participant . |
| language | String | No | 2 | The language used in the conference invitation email, for more information, refer to Supported Language . It defaults to Chinese. |
| autoInviteEnable | Boolean | No | | Enable Auto invitation or not, and it defaults to disabled if it is not configured. |
| broadcastEnable | Boolean | No | | Enable the Broadcasting interactive or not. It is only applicable in the training mode conference, and it defaults to disabled if it is not configured. |
| conferenceLiveBroadcast | ConferenceLiveBroadcast | No | | For the parameter of the live broadcasting, refer to ConferenceLiveBroadcast . |
| autoInviteAfterRegEnable | Boolean | No | | Enable the Auto redialing or not, and it defaults to disabled if it is not configured. |
| emailRemark | String | No | 0-1500 | The added information in the email supports RTF (Rich Text Format). |
| plainEmailRemark | String | No | 0-1500 | The added information in the email also supports plain text. |
| password | String | No | 6 | The conference password and it consists of digits. |
| editPassword | Boolean | No | | Edit the password or not. It defaults to false. |

Note: Auto invitation means that the server will automatically invite the conference participant when the scheduled conference begins.

Example Parameter:

- The general conference

```
{
  "subject": "普通会议 - 系列修改样例",
  "conferenceTimePattern": {
    "conferenceTime": {
      "startDate": "2018-08-04",
      "startTime": "14:30",
      "endDate": "2018-08-04",
      "endTime": "15:00"
    },
    "zoneId": "China_Standard_Time",
    "recurrencePattern": {
      "pattern": {
        "recurrenceType": "RECURS_DAILY",
        "dailyType": 1,
        "interval": 1
      },
      "range": {
        "recurrenceRange": "2",
        "rangeStartDate": "2018-08-04",
        "hasNoEndDate": false,
        "occurrences": 2
      }
    },
    "dstConfig": {
      "dstEnable": 0,
      "dayLightDelta": 0
    }
  },
  "roomIds": ["9bc10f13777244f689297c8c7e757ce1"],
  "isPrivate": true,
  "emailRemark": "",
  "plainEmailRemark": "",
  "participants": [{
    "id": "0cc0da1937804e36a3c1e46c1783de01",
    "type": "internal",
    "role": "organizer"
  }],
  "language": "zh",
  "conferencePlanId": "c1144f78bed5425bb03d3d4cb0586478"
}
```

- The video conference

```
{
  "profile": "demonstrator",
```

```

"subject": "视频会议 - 编辑系列样例",
"conferenceTimePattern": {
  "conferenceTime": {
    "startDate": "2018-08-04",
    "startTime": "14:30",
    "endDate": "2018-08-04",
    "endTime": "15:00"
  },
  "zoneId": "China_Standard_Time",
  "recurrencePattern": {
    "pattern": {
      "recurrenceType": "RECURS_DAILY",
      "dailyType": 1,
      "interval": 1
    },
    "range": {
      "recurrenceRange": "3",
      "rangeEndDate": "2018-08-11",
      "hasNoEndDate": false,
      "rangeStartDate": "2018-08-04"
    }
  },
  "dstConfig": {
    "dstEnable": 0,
    "dayLightDelta": 0
  }
},
"roomIds": [],
"emailRemark": "",
"plainEmailRemark": "",
"participants": [{
  "id": "0cc0da1937804e36a3c1e46c1783de01",
  "type": "internal",
  "role": "organizer"
}],
"conferenceLiveBroadcast": {
  "enable": true,
  "definition": "720P",
  "videoSetting": "AVD",
  "description": "活动详情"
},
"autoInviteEnable": false,
"broadcastEnable": true,
"autoInviteAfterRegEnable": false,
"password": "287859",
"editPassword": true,
"language": "zh",
"conferencePlanId": "4fed5f8f495b4ffaa5b92b5469e3a658"
}

```

Example of Successful Response:


```
{
  "ret": 1,
  "data": {
    "conferencePlanId": "4fed5f8f495b4ffaa5b92b5469e3a658" //The conference plan ID
  },
  "error": null
}
```

3.4.3.2 Editing a Single Conference

Request URL:

- POST: /conference/record/{staffId}/edit

Request Parameter:

- **Path parameter:**
staffId: the user id
- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------------|---|---------------------------------|--------|---|
| conferenceRecordId | String | Yes | 32 | The ID of a single conference. |
| profile | String | Required in video conferences | | The conference mode, one of default (the discussion mode) or demonstrator (the training mode). |
| subject | String | Yes | 1-128 | The conference subject. |
| conferenceTimePattern | ConferenceTimePattern | Yes | | For the conference recurrence, refer to ConferenceTimePattern . |
| roomId | List<String> | Required in general conferences | | The ID list of the meeting room. |
| participants | List< Participant > | No | | For the list of the participant, refer to Participant . |
| language | String | No | 2 | The language used in the conference invitation email, for more information, refer to Supported Language . It defaults to Chinese. |
| autoInviteEnable | Boolean | No | | Enable Auto invitation or not, and it defaults to disabled if it is not configured. |
| broadcastEnable | Boolean | No | | Enable the Broadcasting interactive or not. It is only applicable in the training mode conference, and it defaults to disabled if it is not configured. |
| conferenceLiveBroadcast | ConferenceLiveBroadcast | No | | For the parameter of the live broadcasting, refer to ConferenceLiveBroadcast . |
| autoInviteAfterRegEnable | Boolean | No | | Enable the Auto redialing or not, and it defaults to disabled if it is not configured. |
| emailRemark | String | No | 0-1500 | The added information in the email supports RTF (Rich Text Format). |
| plainEmailRemark | String | No | 0-1500 | The added information in the email also supports plain text. |
| password | String | No | 6 | The conference password and it consists of digits. |
| editPassword | Boolean | No | | Edit the password or not. It defaults to false. |

Note: Auto invitation means that the server will automatically invite the conference participant when the scheduled conference begins.

Example parameter:

- The general conference

```
{
  "subject": "普通会议 - 单个修改样例",
  "conferenceTimePattern": {
    "conferenceTime": {
      "startDate": "2018-08-05",
      "startTime": "14:30",
      "endDate": "2018-08-05",
      "endTime": "15:00"
    }
  }
}
```

```

    },
    "zoneId": "China_Standard_Time",
    "recurrencePattern": null,
    "dstConfig": {
      "dstEnable": 0,
      "dayLightDelta": 0
    }
  },
  "roomIds": ["cb95d911a7864956aa0376335bbe0dbe"],
  "emailRemark": "",
  "plainEmailRemark": "",
  "participants": [{
    "id": "0cc0da1937804e36a3c1e46c1783de01",
    "type": "internal",
    "role": "organizer"
  }],
  "language": "zh",
  "conferenceRecordId": "1a2f60ab243c440398a7dbb974685327"
}

```

- The video conference

```

{
  "profile": "demonstrator",
  "subject": "视频会议 - 编辑单个样例",
  "conferenceTimePattern": {
    "conferenceTime": {
      "startDate": "2018-08-04",
      "startTime": "14:30",
      "endDate": "2018-08-04",
      "endTime": "15:00"
    },
    "zoneId": "China_Standard_Time",
    "recurrencePattern": null,
    "dstConfig": {
      "dstEnable": 0,
      "dayLightDelta": 0
    }
  },
  "roomIds": [],
  "emailRemark": "",
  "plainEmailRemark": "",
  "participants": [{
    "id": "0cc0da1937804e36a3c1e46c1783de01",
    "type": "internal",
    "role": "organizer"
  }],
  "conferenceLiveBroadcast": {
    "enable": true,
    "definition": "720P",
    "videoSetting": "AVD",
    "description": "活动详情"
  }
}

```

```

},
"autoInviteEnable": false,
"broadcastEnable": true,
"autoInviteAfterRegEnable": false,
"language": "zh",
"password": "287859",
"editPassword": true,
"conferenceRecordId": "d13e5c6aab9f4cd0826bee218b075ba2"
}

```

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "conferenceRecordId": "1a2f60ab243c440398a7dbb974685327" //The ID of a single conference
  },
  "error": null
}

```

3.4.4 Viewing Conferences

3.4.4.1 Viewing the Information of a Single Conference

Request URL:

- GET: /conference/record/{staffId}/info

Request Parameter:

- **Path parameter:**
staffId: the user ID
- **Query parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------|--------|----------|--------|--------------------------------|
| conferenceRecordId | String | Yes | 32 | The ID of a single conference. |

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    见 单次会议对象
  },
  "error": null
}

```

3.4.4.2 Viewing the Details of the Conference Plan

Request URL:

- GET: /conference/plan/{staffId}/info

Request Parameter:

- **Path parameter:**
staffId: the user id
- **Query parameter:**

| Parameter | Type | Required | Length | Description |
|------------------|--------|----------|--------|-------------------------|
| conferencePlanId | String | Yes | 32 | The conference plan id. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": {
    "id": "ed2c09f325f94cdf821fdf3418a7200e", //The conference plan ID
    "isPresenter": false, //It means whether or not the current user you request is the presenter
    "isOrganizer": true, //It means whether or not the current user you request is the organizer
    "organizer": {
      "id": "219eee112d204316bef4bfc1e016805b", //The organizer ID
      "name": "fanghf3" //The organizer name
    },
    "confType": "VGCP", //The conference type, one of NC(the general conference) or VGCP(the video conference)
    "conferenceSubject": {
      "subject": "【创建】会议周期测试_夏令时", //The conference subject
      "subjectPinyin": "【chuangjian】huiyizhouqiceshi_xialingshi",
      "subjectPinyinAlia": "【cj】hyzqcs_xls"
    },
    "conferenceTimePattern": {
      "timeZone": {
        "zoneld": "Ulaanbaatar_Standard_Time", //The ID of the time zone
        "utcOffset": 28800, //The offset from this time zone to GMT time, in second unit
        "offsetDisplayName": "+08:00", //The time zone offset is converted into the hours and minutes form
        "cnZoneName": "(UTC+08:00)乌兰巴托", //The time zone in Chinese
        "usZoneName": "(UTC+08:00)Ulaanbaatar" //The time zone in English
      },
      "dstConfig": {
        "dstEnable": 1, //Enable the DST or not. If the value is 0, DST is disabled, if the value is 1, DST is enabled
        "dayLightDelta": 3600000 //The DST offset, in millisecond unit
      },
      "conferenceTime": {
        "startDate": "2018-01-01", //The conference start date

```

```

    "endDate": "2018-01-02", //The conference end date
    "startTime": "00:00", //The conference start time
    "endTime": "00:00", //The conference end time
    "startDateTimeStamp": 1514736000000, //The timestamp of the conference start time
    "endDateTimeStamp": 1514822400000, //The timestamp of the conference end time
    "startDateTimeStampNoDST": 1514736000000, //The timestamp of the conference start time when the DST is
not enabled
    "endDateTimeStampNoDST": 1514822400000 //The timestamp of the conference end time when the DST is not
enabled
  },
  "recurrencePattern": {
    "appointmentTime": {
      "startDateTimeStampNoDST": 1514736000000,
      "endDateTimeStampNoDST": 1514822400000,
      "startDateTimeStampDST": 1514736000000,
      "endDateTimeStampDST": 1514822400000,
      "startTimeStamp": 0,
      "endTimeStamp": 86400000,
      "startDate": "2018-01-01",
      "endDate": "2018-01-02",
      "startTime": "00:00",
      "endTime": "00:00"
    },
    "pattern": { //Refer to Parameter Object-Pattern
      "recurrenceType": "RECURS_DAILY",
      "dailyType": 1,
      "dayOfMonth": null,
      "daysOfWeeks": [],
      "dayOfWeek": null,
      "dayOfWeekIndex": null,
      "interval": 2,
      "monthOfYear": null
    },
    "range": { //Refer to Parameter Object-Range
      "recurrenceRange": 1,
      "rangeStartDate": "2018-01-01",
      "occurrences": null,
      "rangeEndDate": null,
      "rangeStartDateStamp": 1514736000000,
      "rangeEndDateStamp": 1577808000000
    }
  }
},
"participants": [{ //Refer to Parameter Object-Participant
  "id": "219eee112d204316bef4bfc1e016805b",
  "role": "organizer",
  "type": "internal",
  "email": "fangwq@yealink.com",
  "displayText": "fanghf3"
}],
"rooms": [{ //The information of the meeting room
  "id": "b3c5ae81030a46e496031569dbd25be5", //The ID of the meeting room

  "name": "视频会议室2", //The meeting room name

```

```

    "type": "vc_room" //The meeting room type, one of nc_room(the general meeting room) or vc_room(the video
conference room)
  },
  "communication": {
    "profile": "default", //The mode of video conferences, one of default(the discussion mode) or demonstrator(the
training mode)
    "conferenceNumber": "1846884215", //The number of the video conference
    "password": "511291", //The password of the video conference
    "vmr": null,
    "advanceConfig":{
      "autoInviteEnable": true, //Enable Auto invitation or not
      "autoInviteFwVersion": ["63"] //The firmware version of the auto invited devices, it is used for identifying the
devices. For more information, see The Supported Devices and Their Firmware Version in Section 3.4.12.1
    }
  },
  "emailRemark": null, //The added information in the email
  "plainEmailRemark": null, //The added information in the email supports plain text
  "appointmentId": "20170831T094405Z-uidGen@yl1223-A01720pc.yealink.com"
},
"error": null
}

```

3.4.5 Viewing Conferences by Paging

Request URL:

- POST: /conference/record/{staffId}/pagedList

Request Parameter:

- **Path parameter:**
staffId: the user id
- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|----------------|--------------|----------|--------|--|
| confTypes | List<String> | Yes | | The conference type, one of NC(the general conference) or VGCP(the video conference). |
| states | List<String> | Yes | | The conference status, one is ready, create, ongoing, or end. |
| skip | Integer | Yes | | The start point of the paging. |
| limit | Integer | Yes | | The returned numbers of every paging. |
| orderbys.field | String | Yes | | The field for listing, one of conferenceTimePattern.conferenceTime.startDateTimeStamp, conferenceTimePattern.conferenceTime.endDateTimeStamp, conferenceSubject.subject, or conferenceSubject.subjectPinyin. |
| orderbys.order | Integer | Yes | 1 | The order, one of descending (-1) or ascending (1). |
| queryStartDate | Long | No | | The start date for requesting, and it is a timestamp. |
| queryEndDate | Long | No | | The end date for requesting, and it is a timestamp. |
| role | String | No | | The participant role in a conference, one of organizer or attendee. |
| autoCount | Boolean | No | | Count the amount of the records or not. It defaults to false. |

Example Parameter:

- The latest two conferences that do not end

```
{
  "autoCount": true,
  "confTypes": ["NC", "VGCP"],
  "data": null,
  "limit": 2,
  "orderbys": [
    {
      "field": "conferenceTimePattern.conferenceTime.startDateTimeStamp",
      "order": 1
    }
  ],
  "skip": 0,
  "states": ["ready", "create", "ongoing"],
  "total": 0
}
```

- Obtaining the user schedule

```
{
  "autoCount": true,
  "confTypes": ["NC", "VGCP"],
  "data": null,
  "limit": 10,
  "orderbys": [
    {
      "field": "conferenceTimePattern.conferenceTime.startDateTimeStamp",
      "order": 1
    }
  ]
}
```



```

],
"queryEndDate": 1525147200000,
"queryStartDate": 1517454000000,
"role": null,
"skip": 0,
"states": ["ready", "create", "ongoing", "end"],
"total": 0
}

```

Example of Successful Response:

```

{
  "ret": 3,
  "data": {
    "skip": 0,
    "limit": 3,
    "total": 366,
    "autoCount": true,
    "orderbys": [
      {
        "field": "conferenceTimePattern.conferenceTime.startDateTimeStamp",
        "order": 1
      }
    ],
    "data": [
      //Refers to The Single Conference
    ],
  },
  "error": null
}

```

3.4.6 Deciding Whether or Not It Is a Recurrence Conference

Request URL:

- GET: /conference/record/checkRecurrence

Request Parameter:

- Query Parameter:

| Parameter | Type | Required | Length | Description |
|--------------------|--------|----------|--------|--------------------------------|
| conferenceRecordId | String | Yes | 32 | The ID of a single conference. |

Example of Successful Response:

```
{
  "ret": 1,
  "data": true, //It means whether or not the single conference is a recurrence conference. For true, it is, for false, it is not
  "error": null
}
```

3.4.7 Requesting Conferences of Different Status

Request URL:

- POST: /conference/record/pagedListByStatus

Request parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| type | String | No | String | The types of the conference status. One of ongoing, ready (the scheduled conference that does not begin, but it is available for participants to join in advance), and vmr. |
| key | String | No | - | Search for keywords. |
| skip | Integer | No | - | The start point of the paging. |
| limit | Integer | No | - | The returned number of each paging. |

Example of Successful Response:

```
{
  "ret": 3,
  "data": {
    "skip": 0,
    "limit": 3,
    "total": 50,
    "autoCount": true,
    "orderbys": [
      {
        "field": "conferenceTimePattern.conferenceTime.startDateTimeStamp",
        "order": 1
      }
    ],
    "data": [
      见 单次会议对象
    ]
  },
  "error": null
}
```

3.4.8 Obtaining the List of the Recording Files after the Conference Is Finished—Third-Party Recording Server

Request URL:

- POST: /conferenceRecording/{uid}/pagedList

Request parameter:

- **Path parameter:**

uid: the ID of the user account

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|--------------------|---------|----------|--------|-------------------------------------|
| conferenceRecordId | String | Yes | - | The ID of the conference recording |
| skip | Integer | No | - | The start point of the paging. |
| limit | Integer | No | - | The returned number of each paging. |

Example of Successful Response:

```
{
  "ret":1,
  "data": {
    "skip":0,
    "limit":10,
    "total":1,
    "autoCount":false,
    "orderbys": [
      {
        "field":"createTime",
        "order":-1
      }
    ],
    "data": [
      {
        "createTime":1550124590614,
        "modifyTime":1550124590614,
        "deleted":false,
        "_id":"d608e56631aa41f8842531c9c4c98fdf",
        "conferenceRecordId":"8f40f75e1d8e43d59ef9626e1a05b1dd",
        "conferenceId":"20019",
        "recordingFileName":"http://xxx/demo.mp4", //The link of the recording file
        "conferenceSubject":"5555的视频会议",
        "enterpriseId":"f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "recordingTime":165, //The recording duration, in second unit
        "id":"d608e56631aa41f8842531c9c4c98fdf"
      }
    ]
  }
}
```

```

    },
    "key": null,
    "conferenceRecordId": "8f40f75e1d8e43d59ef9626e1a05b1dd",
    "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0"
  },
  "error": null
}

```

3.4.9 Obtaining the Method to Join the conference

Request URL:

- GET: /conferenceUrl/get

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|------------------|--------|----------|--------|-------------------------|
| conferencePlanId | String | Yes | | The conference plan ID. |

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "sfbJoinUrl": "http://test.extranet.com/user/extend/mail/sfb?code=+O9ElqalVdiZX2rc0zKWUSH4gvszXD/yMfuQtZ8NWAM=", //The Sfb URL to join the conference
    "h323JoinUrl": { //The H323 URL to join the conference
      "intranet": "33333**324701@10.10.10.10", //The H323 URL for the internal network
      "extranet": "33333**324701@123.10.10.10" //The H323 URL for the external network
    },
    "liveBroadcastJoinUrl": "test.extranet.com/livestream?planId=83c007&enterId=f4a4a", //The URL for participants to watch the conference webcast
    "webRTCJoinUrl": { //The webRTC URL for participants to join the conference via browser
      "intranet": "http://test.intranet.com/meeting/join/#/login?t=4i8BWT3gC5XujrXvPD1Hmg==", //The webRTC URL for the internal network webRTC
      "extranet": "http://test.extranet.com/meeting/join/#/login?t=4i8BWT3gC5XujrXvPD1Hmg==" //The webRTC URL for the external network
    },
    "sipJoinUrl": { //The SIP URL to join the conference SIP
      "intranet": "33333**324701@10.10.10.10", //The SIP URL for the internal network
      "extranet": "33333**324701@123.10.10.10" //The SIP URL for the external network
    }
  },
  "error": null
}

```

Note: if some URL is not supported to join the conference, the value of the URL you get is null.

3.5 Managing Recording Files--YMS Recording

3.5.1 Obtaining the Recording File

Request URL:

- POST:/recording/pagedList

Request Parameter:

- **Body parameter:**

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|---|
| type | String | Yes | - | The node type, one of ORG(the group), STAFF (the user account), and DEVICE (the room system). |
| ownerId | String | Yes | - | The ID of the file owner, you can pass the ORG ID or the STAFF ID and you need to correspond this parameter to the type parameter. When type is ORG, you obtain all the files in the group. |
| startTime | Long | No | - | The timestamps of the start time (milliseconds). |
| endTime | Long | No | - | The timestamps of the end time (milliseconds). |
| skip | Integer | No | - | The start point of the paging. |
| limit | Integer | No | - | The number of returned items per page. |

Example of Successful Response:

```
{
  "ret":1,
  "data":{
    "skip":0,
    "limit":50,
    "total":1,
    "autoCount":true,
    "orderbys":[
      {
        "field":"createTime",
        "order":-1
      }
    ],
    "data":[
      {
        "id":"22767B35-3716-A34A-906D-840DB097C83F", //The recording ID
        "enterprisId":"f4a4a4ee02ac4bb8875bbd08e03d4de0",
        "conferencId":"8079abf2218043da8a93312bc3768db0",
        "subject":"chenjk的视频会议",

```

```

    "number": "20054",
    "name": "chenjk的视频会议(2019-05-27 13:54:08)", //The name of the recording file
    "ownerId": "530cd170c2e14428948d22dec0dbc0ca",
    "ownerName": "chenjk",
    "spaceId": "CB3C449C-074B-6843-8B90-31B98F00FE3A",
    "templateId": "4f883c8fc14e494abc3f602fb5205490",
    "recordingDownloadTimes": 0,
    "recordingPlayTimes": 0,
    "size": 0.19, //The size of the recording file, in MB unit
    "status": "transcoded",
    "cover": "/vod/private/693A33EA-5998-C140-BF3E-9CF5CAB0C56C.jpeg",
    "url": "/file/play/22767B35-3716-A34A-906D-840DB097C83F",
    "remark": "123422222",
    "duration": 9,
    "createTime": 1558936448563
  }
]
},
"error": null
}

```

3.5.2 Playing the Recording File

Request URL:

- POST: /recording/play

Request Parameter:

- Body parameter:

| Request Parameter | Type | Required | Length | Description |
|-------------------|--------|----------|--------|-------------------------------|
| id | String | Yes | - | The ID of the recording file. |

Example of Successful Response:

```

{
  "ret": 1,
  "data": {
    "owner": "chenjk",
    "ownerNumber": "2962", //The account of the file owner
    "recordingDownloadTimes": 0,
    "recordingPlayTimes": 0,
    "fileList": [ //The list of the transcoded file
      {
        "fileId": "B9FF2555-59F2-904D-9E6D-9E6D.mp4", //The ID of the transcoded file
        "urlId": "RSS_URL_92965A59",
        "host": "xx.xx.xx.xx:xx", //The address, containing the IP and the port. Splice this address with the stream URL to request the stream
        "url": "/vod/public/92965A59-E69.mp4?reqId=d2d8a3", //The stream URL
      }
    ]
  }
}

```

```

"fileType": "mp4", //The type of the recording file, one of mp4, avi, mp3, jpeg, and tsp (audio converting into text)
"fileSize": 0.19, //The size of the recording file, in MB unit
"videoSize": "720P", //The resolution
"duration": 9, //The duration, in second unit
"name": "chenjk的视频会议-720P(2019-05-27 13:54:09).mp4", //The name of the recording file
"createTime": 1558936449,
"secondVideo": No
}, {
  "fileId": "4B514494-833E-FE4A-8B06.mp3",
  "urlId": "RSS_URL_2AE2CB4F-3705",
  "host": "xx.xx.xx.xx:xx",
  "url": "/vod/public/2AE2CB4F-370.mp3?reqId=5ce8cd078c",
  "fileType": "mp3",
  "fileSize": 0.07,
  "videoSize": "720P",
  "duration": 9,
  "name": "chenjk的视频会议(2019-05-27 13:54:09).mp3",
  "createTime": 1558936449,
  "secondVideo": false
}, {
  "fileId": "2B2E17CE-11E4-194B",
  "urlId": "RSS_URL_1E534E0D-CECC",
  "host": "xx.xx.xx.xx:xx",
  "url": "/tsp/public/1E534E0D.tsp?reqId=bf52a5cc42c7f6",
  "fileType": "tsp",
  "fileSize": 0.00,
  "videoSize": "720P",
  "duration": 9,
  "name": "chenjk的视频会议(2019-05-27 13:54:09).txt",
  "createTime": 1558936449,
  "secondVideo": false
}, {
  "fileId": "B9FF2555-59F2-904D-9E6D2.jpg",
  "urlId": "RSS_URL_B9408218-ED5B-4E44",
  "host": "xx.xx.xx.xx:xx",
  "url": "/vod/public/B9408218-ED5B.jpeg?reqId=7d4162b1da48431",
  "fileType": "jpeg",
  "fileSize": 0.00,
  "videoSize": "720P",
  "duration": 9,
  "name": "chenjk的视频会议(2019-05-27 13:54:09).jpeg",
  "createTime": 1558936449,
  "secondVideo": false
}],
"conferenceInfo": {
  "_id": "d73cd6fa4ab143edba72d3ae2b551c1a",
  "uuid": "af38865c-c71b-5dab-8ece-d787aa2c1a19",
  "startTimeStamp": 1558935936000,
  "endTimeStamp": 1558942722000,
  "startTime": null,
  "endTime": null,
  "duration": 6786, //The duration (seconds)

  "durationStr": "01:53:06",

```

```

"offset": null,
"callType": "recurrence", //The conference type
"subject": "chenjk的视频会议",
"organizerName": "chenjk",
"conferenceNumberType": "VGCP",
"attendanceAmount": 1, //The number of the conference participants
"conferenceId": "20054",
"formatSubject": "chenjk的视频会议",
"profile": "default",
"rtmpEnabled": false,
"liveBroadcastDuration": 0,
"maxParticipantNum": 1,
"subtitleFile": null,
"rooms": null,
"attendances": [{ //The conference participant
  "name": "10.81.40.2",
  "number": "",
  "confRole": "attendee" //The participant role
}],
"recurrence": true
},
"remark": "123422222",
"recordingId": "22767B35-3716-A34A-906D-840DB097C83F"
},
"error": null
}

```

3.5.3 Deleting the Recording File

Request URL:

- POST: /recording/delete

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|------|----------|--------|--------------------------------|
| ids | List | Yes | - | The IDs of the recording file. |

Example of Successful Response:

```

{
  "ret": 0,
  "data": null,
  "error": null
}

```

3.5.4 Obtaining the Remark of the Recording File

Request URL:

- GET:/recording/getRemark

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|-------------------------------|
| id | String | Yes | - | The ID of the recording file. |

Example of Successful Response:

```
{
  "ret":1,
  "data":"123422", //The remark
  "error":null
}
```

3.5.5 Editing the Remark of the Recording File

Request URL:

- POST:/recording/remark

Request Parameter:

- Body parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|-------------------------------|
| id | String | Yes | - | The ID of the recording file. |
| remark | String | Yes | - | The remark. |

Example of Successful Response:

```
{
  "ret":0,
  "data":null,
  "error":null
}
```

3.5.6 Checking the Download of the Recording File

Request URL:

- GET:/recording/checkDownload

Request Parameter:

- Query parameter:

| Parameter | Type | Required | Length | Description |
|-------------|--------|----------|--------|---|
| recordingId | String | Yes | - | The ID of the recording file. |
| fileId | String | No | - | The ID of the transcoded file. If you do not pass this parameter, the video file will be downloaded by default. |

Example of Successful Response:

```
{
  "ret":1,
  "data":{
    "fileId":"B9FF2555-59F2-904D-9E6.mp4", //The ID of the transcoded file
    "urlId":"RSS_URL_490F3428-53FF-84", //The ID of the URL
    "downloadUrl":"/vod/public/490F3428-53FF-8447.mp4?reqId=674ea64135b2",
    "host":"xx.xx.xx.xx:xx" //The address, containing the IP and the port. Splice this address with the download URL to
    download th file
  },
  "error":null
}
```

3.6 Managing Historical Statistics and Call Records

3.6.1 Summary of the Call

Request URL:

- GET:/callRecord/callRecordSummary

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|------|----------|--------|---|
| beginTime | Long | Yes | | The start time of the call statistics you want to view. The start time is a timestamp in milliseconds. |
| endTime | Long | Yes | | The end time of the call statistics you want to view. The end time is a timestamp in milliseconds. |

Example of Successful Response:

| Parameter | Value |
|-----------|---------------|
| beginTime | 1483200000000 |
| endTime | 1514736000000 |

```
{
  "ret": 4,
  "data": [
    {
      "type": "p2p",          /*The conference type. see below:
      p2p: point-to-point conference
      meetnow: Meet Now conference
      recurrence: the scheduled conference
      vmr: the conference held in the virtual meeting room
      */
      "count": 2,           //The number of the conferences
      "duration": 8
    },
    {
      "type": "meetnow",
      "count": 2,
      "duration": 406
    },
    {
      "type": "recurrence",
      "count": 1,
      "duration": 224815
    },
    {
      "type": "vmr",
      "count": 1,
      "duration": 224815
    }
  ],
  "error": null
}
```

3.6.2 Obtaining the Chart Information of the Call Records

Request URL:

- GET:/callRecord/callRecordChart

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|------|----------|--------|---|
| beginTime | Long | Yes | | The start time of the call statistics you want to view. The start time is a timestamp in milliseconds. |
| endTime | Long | Yes | | The end time of the call statistics you want to view. The end time is a timestamp in milliseconds. |

Example of Successful Response:

| Parameter | Value |
|-----------|---------------|
| beginTime | 1530460800000 |
| endTime | 1533139199999 |

```
{
  "ret": 4,
  "data": [
    {
      "dateTimeStamp": 1531411200000, //The timestamps of the date
      "callCount": 5, //The number of the conferences
      "callDuration": 61210 //The duration of the conference
    },
    {
      "dateTimeStamp": 1531497600000,
      "callCount": 43,
      "callDuration": 40355
    },
    {
      "dateTimeStamp": 1531612800000,
      "callCount": 5,
      "callDuration": 31583
    },
    {
      "dateTimeStamp": 1531699200000,
      "callCount": 19,
      "callDuration": 10252
    }
  ],
  "error": null
}
```

3.6.3 Obtaining the Call Records by Paging

Request URL:

- POST:/callRecord/PagedList

Request Parameter:

| Parameter | Type | Required | Length | Description |
|------------------|---------|----------|--------|--|
| callType | String | Yes | | The call type, see below: p2p: point-to-point conference conference: non-P2P conference meetnow: Meet Now conference recurrence: the scheduled conference vmr: the virtual meeting room (Note that meetnow, recurrence and vmr belong to conference) |
| beginTime | Long | Yes | | The start time of the call statistics you want to view. The start time is a timestamp in milliseconds. |
| endTime | Long | Yes | | The end time of the call statistics you want to view. The end time is a timestamp in milliseconds. |
| key | String | No | 64 | Perform a fuzzy match to the keyword. |
| language | String | Yes | | The language, it can be ZH, EN, ES, PT, PL, RU, TW. See Section Supported Languages . |
| skip | Integer | No | | The number of skipped items. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |
| autoCount | boolean | No | | Count the statistics or not, true is to count and false is not. |
| orderbys[].field | String | No | | The ordering field. |
| orderbys[].order | int | No | | The order, one of descending (-1) or ascending (1). |

Example of Successful Response:

1. The successful response of the P2P conference:

| Parameter | Value | Description |
|------------|---------------|---------------------------|
| callType | p2p | Point to point conference |
| beginTime | 1530460800000 | |
| endTime | 1533139199999 | |
| orderbys[] | null | |

```
{
  "ret": 1,
  "data": {
    "skip": 0,
    "limit": 10,
    "total": 1,
    "autoCount": true,
    "orderbys": [
      {
        "field": "startTimeStamp",
        "order": -1
      }
    ],
    "data": [
      {
        "_id": "65edc7662f214d9bb3f40f2ec392131c", //The ID of the call record
        "_uuid": "e58b98d75171457498f0dac425f8cacc1",
        "startTimeStamp": 1532684147000,
        "endTimeStamp": 1532684219000,
        "startTime": null,
        "endTime": null,
        "offset": null,
        "duration": 72, //The duration, in second unit
        "callerDisplayName": "test6", //The name of the caller
        "callerType": "pstn", //The account type of the caller
        "calleeDisplayName": "8002", //The name of the callee
        "calleeType": "yms", //The account type of the caller
        "callerNumber": "3006", //The number of the caller
        "calleeNumber": "8002", //The number of the callee
        "callType": "p2p"
      }
    ]
  },
  "error": null
}
```

Description of the callerType/calleeType: it is the account type, it can be p(YMS account), pstn(PSTN), sfb(SfB), ipcall(IP Call), h323gk(H.323 GK), h323gw(H.323 GW), peertrunk(Peer Trunk), regtrunk(Register Trunk), and federation (Federation).

2. The successful responses of other types:

| Parameter | Value | Description |
|------------|---------------|----------------------|
| callType | meetnow | Meet Now conference. |
| beginTime | 1530460800000 | |
| endTime | 1533139199999 | |
| orderbys[] | null | |

```
{
  "ret": 10,
  "data": {
    "skip": 0,
    "limit": 10,
    "total": 130,
    "autoCount": false,
    "orderbys": [
      {
        "field": "startTimeStamp",
        "order": -1
      }
    ],
    "data": [
      {
        "_id": "45cc3eb3fd754db8b03b939470d4ae29", //The conference ID
        "uuid": "e9dd58f2-9879-8dea-69a1-ac22aa3acb82", //The conference uuid
        "startTimeStamp": 1532678093000,
        "endTimeStamp": 1532678122000,
        "startTime": null,
        "endTime": null,
        "duration": 29, //The duration, in second unit
        "offset": null,
        "callType": "meetnow", //The call type, one of p2p, meetnow, vmr, or recurrence
        "subject": "2051's video conference",
        "organizerName": "2051",
        "conferenceNumberType": "VMN",
        "attendanceAmount": null,
        "conferenceId": 57038,
        "profile": "default", //The conference mode
        "liveBroadcastDuration": 0,
        "recurrence": false
      },
      .....
    ]
  },
  "error": null
}
```

Note:

- Specify the type when you want to perform a search.
- For the time in the returned search results, you need to calculate the time according to the timestamps. Do not directly take the time string. The duration is in seconds.
- If you set the callType as conference, the returned result is meetnow, recurrence, and vmr.

3.6.4 Obtaining the Call Details of A Call Record

Request URL:

- GET:/callRecord/get

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| id | String | Yes | | The ID of the call record or the conference record, corresponding to _id in the returned result below. |
| type | String | Yes | | The type of the call record or the conference record. You can get this value from the value of callType. |
| language | String | Yes | | The language, it can be ZH, EN, ES, PT, PL, RU, TW. See Section Supported Languages . |

Example of Successful Response:

1. The successful response of P2P:

| Parameter | Value |
|-----------|-----------------------------------|
| id | e58b98d75171457498f0dac425f8cacc1 |
| type | p2p |

```

"ret": 1,
"data": {
  "_id": "363a0aeb65924f78b8f6f8f6b470e8e6", //The ID of the call record
  "uuid": "363a0aeb65924f78b8f6f8f6b470e8e6", //The conference uuid
  "startTimeStamp": 1560775345000,
  "endTimeStamp": 1560775359000,
  "startTime": null,
  "endTime": null,
  "duration": 14, //The duration, in second unit
  "offset": null,
  "callType": "p2p",
  "callerDisplayName": "1050 (1050)", //The name of the caller
  "calleeDisplayName": "119906059947 (119906059947)", //The name of the callee
  "callerNumber": "1050", //The number of the caller

```



```

"calleeNumber": "119906059947", //The number of the callee
"callerUserAgent": "Yealink Reg_Trunk 1.0.1.77 Jun 14 2019", //The device of the caller
"calleeUserAgent": "Apollo_PSTN", //The device of the callee
"callerOrgIds": [//The IDs of the group which the caller belongs to
  "f96815ca15c148b498f5295ac9e7b727"
],
"calleeOrgIds": [//The IDs of the group which the callee belongs to
"subject": "1050呼叫119906059947",
"callerType": "p", //The account type of the caller
"calleeType": "pstn"//The account type of the callee
},
"error": null
}

```

2. The successful responses of other types:

| Parameter | Value |
|-----------|----------------------------------|
| id | 5902f4d12ddf44f685896b07edecc0ed |
| type | vmr |

```

{
  "ret": 1,
  "data": {
    "_id": "45cc3eb3fd754db8b03b939470d4ae29", //The conference ID
    "uuid": " 2a2f1710-b6ea-47eb-38f5-40d075c88aef ", //The conference uuid
    "startTimeStamp": 1532685365000,
    "endTimeStamp": 1532685488000,
    "startTime": null,
    "endTime": null,
    "duration": 123, //The duration, in second unit
    "offset": null,
    "callType": "vmr",
    "subject": "测试",
    "organizerName": "yealink",
    "conferenceNumberType": "VGCM", //The conference type
    "maxParticipantNum": 5, //The maximum number of the conferecen concurrent parties
    "attendanceAmount": 2, //The number of the conference participants
    "conferenceId": "22221", //The conference ID
    "formatSubject": "测试",
    "profile": "demonstrator", //The conference mode
    "rtmpEnabled": false,
    "liveBroadcastDuration": 0,
    "subtitleFile": [ //The conference subtitle. From this parameter, you can check whether or not the conference has
      subtitle
      {
        "url": "/tsp/private/1234.tsp",
        "intranetAddr": "",
        "extranetAddr": ""
      }
    ]
  }
}

```

```
    ]
    "recurrence": false
  },
  "error": null
}
```

| Parameter | Value |
|-----------|----------------------------------|
| id | aac527686d0242e68b097d0fcaf1afd2 |
| type | recurrence |

```
{
  "ret": 1,
  "data": {
    "_id": "aac527686d0242e68b097d0fcaf1afd2",
    "uuid": "3006e0d1-2f4e-52af-96ef-ae4648f77a1d",
    "startTimeStamp": 1532679020000,
    "endTimeStamp": 1532684179000,
    "startTime": null,
    "endTime": null,
    "duration": 5159,           //The duration, in second unit
    "offset": null,
    "callType": "recurrence",
    "subject": "220讨论-----0001",
    "organizerName": "涅槃",
    "conferenceNumberType": "VGCP",
    "maxParticipantNum": 5, //The maximum number of the conference concurrent parties
    "attendanceAmount": 5,
    "conferenceId": "20670",
    "formatSubject": "220讨论-----0001",
    "profile": "default",
    "rtmpEnabled": false,
    "liveBroadcastDuration": 0,
    "subtitleFile": [           //The conference subtitle. From this parameter, you can check whether or not the conference has
subtitle
      {
        "url": "/tsp/private/1234.tsp",
        "intranetAddr": "",
        "extranetAddr": ""
      }
    ]
    "recurrence": false
  },
  "error": null
}
```

| Parameter | Value |
|-----------|----------------------------------|
| id | a9c61ef92be745b5ab11230592c62a81 |
| type | meetnow |

```
{
  "ret": 1,
  "data": {
    "_id": "a9c61ef92be745b5ab11230592c62a81",
    "uuid": "e9dd58f2-9879-8dea-69a1-ac22aa3acb82",
    "startTimeStamp": 1532678093000,
    "endTimeStamp": 1532678122000,
    "startTime": null,
    "endTime": null,
    "duration": 29,           //The duration, in second unit
    "offset": null,
    "callType": "meetnow",
    "subject": "2051's video conference",
    "organizerName": "2051",
    "conferenceNumberType": "VMN",
    "maxParticipantNum": 5, //The maximum number of the conference concurrent parties
    "attendanceAmount": 1,
    "conferenceId": "57038",
    "formatSubject": "2051's video conference",
    "profile": "default",
    "rtmpEnabled": false,
    "liveBroadcastDuration": 0,
    "subtitleFile": [       //The conference subtitle. From this parameter, you can check whether or not the conference has
      subtitle
      {
        "url" : "/tsp/private/1234.tsp",
        "intranetAddr": "",
        "extranetAddr": ""
      }
    ]
    "recurrence": false
  },
  "error": null
}
```

3.6.5 Obtaining the Conference Participants by Paging

Request URL:

- POST:/callRecord/getAttendancePagedList

Request Parameter:

| Parameter | Type | Required | Length | Description |
|------------------|---------|----------|--------|--|
| confUuid | String | Yes | | The conference uuid. |
| skip | Integer | No | | The number of skipped items. For example, if you want to view the data on page 3, skip = 2*limit. |
| limit | Integer | No | | The maximum number of the obtained records per page. It defaults to 1000 if it is not configured. |
| autoCount | boolean | No | | Count the statistics or not, true is to count and false is not. |
| orderbys[].field | String | No | | The string for ordering, one of userDisplayName, userNumber, startTimeStamp, endTimeStamp |
| orderbys[].order | int | No | | The order, one of descending (-1) or ascending (1). |
| gatewayType | String | No | | The type of the gateway (the account type), SFB, PSTN, IPCALL, H323-GK, H323-GW, PEER-TRUNK, REG-TRUNK, THIRD-PARTY-REG, YMS, and Federation |
| confRole | String | No | | The role (privilege) of the conference participant, see below: organizer: the conference organizer presenter: the conference moderator attendee: the conference participant castviewer: the broadcasting party |
| key | String | No | | Perform a fuzzy match to the name, the account number or the device type. |
| orgId | String | No | | The ID of the group. |

Example of Successful Response:

| Parameter | Value |
|------------|--------------------------------------|
| confUuid | 4b0e8910-e325-7885-ddac-ed1a808615e8 |
| orderbys[] | null |

```
{
```

```

"ret": 2,
"data": {
  "skip": 0,
  "limit": 10,
  "total": 2,
  "autoCount": true,
  "orderbys": [
    {
      "field": "startTimeStamp",
      "order": -1
    }
  ],
  "data": [
    {
      "name": "2000",           //The name
      "number": "2000",       //The account number
      "gatewayType": "PSTN",   //The account type
      "orgIds": ["a5104843ce184585beb78c392c0aab35"], //The IDs of the group which the participants belongs to
      "startTimeStamp": 1503628009000,
      "endTimeStamp": 1503852799000,
      "startTime": null,
      "endTime": null,
      "duration": 224790,
      "userAgent": "Yealink SIP VP-T49G 51.23.0.20", //The device
      "conferenceUserRole": "organizer", //The conference privilege, one of organizer, attendee, presenter
      "hangupReason": "AbnormalDrop" /*The reason why the participant leaves the conference, see below:
        1. userInitiativeBye: the participant leaves the conference initiatively
        2. webContorlDelete: the participant is removed from the conference via the conference control interface
        3. ConferenceEnd: the conference ends and all the participants leave the conference
        4. AbnormalDrop: abnormal issues cause the participant leaves the conference
      */
    },
    {
      "name": "2001",
      "number": "2001",
      "gatewayType": "IPCALL",
      "orgIds": ["a5104843ce184585beb78c392c0aab35"],
      "startTimeStamp": 1503628009000,
      "endTimeStamp": 1503852799000,
      "startTime": null,
      "endTime": null,
      "duration": 224790,
      "userAgent": "Yealink SIP VP-T49G 51.23.0.20",
      "conferenceUserRole": "attendee",
      "hangupReason": "AbnormalDrop"
    }
  ]
  .....
}
},
"error": null
}

```

3.6.6 Exporting the Call Records

Request URL:

- GET:callRecord/download

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| callType | String | Yes | | The call type, see below: p2p: point-to-point conference conference: non-P2P conference meetnow: Meet Now conference recurrence: the scheduled conference vmr: the virtual meeting room (Note that meetnow, recurrence and vmr belong to conference) |
| beginTime | Long | Yes | | The start time of the call statistics you want to view. The start time is a timestamp in milliseconds. |
| endTime | Long | Yes | | The end time of the call statistics you want to view. The end time is a timestamp in milliseconds. |
| offset | int | Yes | | The UTC offset of the browser. |
| language | String | Yes | | The language, it can be ZH, EN, ES, PT, PL, RU, TW. See Section Supported Languages . |
| key | String | No | | Perform a fuzzy match to the keyword. |

Example of Successful Response:

None

3.6.7 Exporting the Call Details of the Call Records (Stream)**Request URL:**

- GET:/callRecord/exportConferenceDetail

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| uuid | String | Yes | | The uuid. |
| callType | String | Yes | | The call type, see below: p2p: point to point conference meetnow: Meet Now conference recurrence: the scheduled conference vmr: the virtual meeting room. |
| offset | int | Yes | | The UTC offset of the browser. |
| language | String | Yes | | The language, it can be ZH, EN, ES, PT, PL, RU, TW. See Section Supported Languages . |

Example of Successful Response:

None

3.6.8 Checking the Conference Subtitle

Request URL:

- GET:/callRecord/checkConferenceText

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| uuid | String | Yes | | The conference uuid. |
| language | String | Yes | | The language, it can be ZH, EN, ES, PT, PL, RU, TW. See Section Supported Languages . |

Example of Successful Response:

None

Note: according to the value of subtitleFile at the conference details, you can check whether or not the conference has subtitles. If the value is null, the conference does not have subtitles, otherwise, the conference has.

3.6.9 Exporting the Conference Subtitle (Stream)

Request URL:

- GET:/callRecord/exportConferenceText

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|---|
| uuid | String | Yes | | The uuid. |
| language | String | Yes | | The language, it can be ZH, EN, ES, PT, PL, RU, TW. See Section Supported Languages . |

Example of Successful Response:

None

Note: according to the value of subtitleFile at the conference details, you can check whether or not the conference has subtitles. If the value is null, the conference does not have subtitles, otherwise, the conference has.

3.6.10 Obtaining the Organization Structure of the Participant

Request URL:

- GET:callRecord/getAttendanceOrgList

Request Parameter:

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|----------------------|
| confUuid | string | Yes | | The conference ID. |
| callType | string | Yes | | The conference type. |

Example of Successful Response:

```
{
  "ret": 2,
  "data": [
    {
      "_id": "59b5394ac42246d9a4e316f80aef8828", //The organization ID
      "parentId": "779ff38d86c24e6b934c2d8e1f3a2abf", //The ID of the upper group
      "path": "779ff38d86c24e6b934c2d8e1f3a2abf:59b5394ac42246d9a4e316f80aef8828",
      "index": 5,
      "enterpriseId": "f4a4a4ee02ac4bb8875bbd08e03d4de0",
      "name": "test2", //The organization name
      "namePinyin": "test2",
      "namePinyinAlia": "test2",
      "type": "ACTUAL",
      "id": "59b5394ac42246d9a4e316f80aef8828"
    },
    .....
  ],
  "error": null
}
```


3.6.11 Deleting the Call Records

Request URL:

- POST:/callRecord/delete

Request Parameter:

| Parameter | Type | Required | Length | Description |
|------------|--------|----------|--------|--|
| callType | String | Yes | | The call type, see below: p2p: point-to-point conference conference: non-P2P conference meetnow: Meet Now conference recurrence: the scheduled conference vmr: the virtual meeting room (Note that meetnow, recurrence and vmr belong to conference) |
| beginTime | Long | Yes | | The start time of the call statistics you want to view. The start time is a timestamp in milliseconds. |
| endTime | Long | Yes | | The end time of the call statistics you want to view. The end time is a timestamp in milliseconds. |
| key | String | No | 64 | Perform a fuzzy match to the keyword. |
| clientTime | Long | Yes | 64 | The current timestamps of the client. If the time gap between the client and the server is too large, you cannot delete the call records. |

Example of Successful Response:

```
{
  "ret": 0,
  "data": null,
  "error": null
}
```

3.7 Parameter Object

3.7.1 ConferenceTimePattern

Description: the time, the time zone, and the recurrence of the conference

| Parameter | Type | Required | Length | Description |
|-------------------|-------------------------------------|----------|--------|---|
| zoneId | String | Yes | | The time zone ID, for example, China_Standard_Time. |
| conferenceTime | ConferenceTime | Yes | | The time of the conference. |
| dstConfig | ConferenceDSTConfig | Yes | | The DST of the conference. |
| recurrencePattern | RecurrencePattern | No | | The recurrence of the conference. |

3.7.2 ConferenceTime

Description: the detailed time information of the conference. In a single conference, it refers to the start time and the end time; in a recurrence conference, it refers to the conference duration.

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| startDate | String | Yes | 10 | The start date of the conference, for example, 2017-07-08. |
| startTime | String | Yes | 5 | The start time of the conference, for example, 19:00. |
| endDate | String | Yes | 10 | The end date of the conference, for example, 2017-07-10. |
| endTime | String | Yes | 5 | The end time of the conference, for example, 21:00. |

3.7.3 ConferenceDSTConfig

Description: the DST settings of the conference

| Parameter | Type | Required | Length | Description |
|---------------|---------|----------|--------|---|
| dstEnable | Integer | Yes | 1 | Enable DST or not. If the value is 0, DST is disabled, if the value is 1, DST is enabled. |
| dayLightDelta | Long | Yes | | Enable the offset which is in millisecond unit. |

3.7.4 Participant

Description: the information of the conference participants

| Parameter | Type | Required | Length | Description |
|-----------|--------|----------|--------|--|
| id | String | Yes | 32 | The user ID. |
| role | String | Yes | | The participant role in the conference, one of organizer, presenter, and attendee. The organizer has the privilege of the moderator. |
| type | String | Yes | None | The type of participant, one of internal or external. |

3.7.5 RecurrencePattern

Description: the information about the recurrence conference. If the object associated with the ConferencePlanId is null, it means this conference is not a recurrence conference.

| Parameter | Type | Required | Length | Description |
|-----------|---------|----------|--------|-------------------------|
| pattern | Pattern | Yes | | The recurrence pattern. |
| range | Range | Yes | | The recurrence range. |

3.7.6 Pattern

Description: the recurrence pattern of the conference.

| Parameter | Type | Required | Length | Description |
|----------------|--------------|----------|--------|---|
| recurrenceType | String | Yes | | <p>The recurrence pattern of the conference. RECURS_DAILY, the recurrence conference occurs every day;</p> <p>RECURS_WEEKLY, the recurrence conference occurs every week;</p> <p>RECURS_MONTHLY, the conference occurs in the Nth day of every several months;</p> <p>RECURS_MONTH_NTH, the recurrence conference occurs in the Nth day/working day/weekend of every several months;</p> <p>RECURS_YEARLY, the recurrence conference occurs every year;</p> <p>RECURS_YEAR_NTH, the recurrence conference occurs in the Nth day/working day/weekend of the specific moth of every year.</p> |
| interval | Integer | No | | The interval of the recurrence. |
| dailyType | Integer | No | 1 | <p>Daily recurrence pattern, it is configured when the RecurrenceType is RECURS_DAILY.</p> <p>1 means every several days; 2 means every working day.</p> |
| daysOfWeeks | List<String> | No | | <p>A day of a week, for example, every Sunday, it is configured when the RecurrenceType is RECURS_WEEKLY.</p> <p>The value can be: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday.</p> |
| dayOfMonth | Integer | No | 1-2 | <p>The Nth day of every month, it is configured when the RecurrenceType is RECURS_MONTHLY.</p> <p>The value can be from 1 to 31.</p> |

| Parameter | Type | Required | Length | Description |
|----------------|---------|----------|--------|---|
| dayOfWeek | String | No | | The type of Day, for example, Sunday. It is configured when the RecurrenceType is RECURS_MONTH_NTH or RECURS_YEAR_NTH. The value can be: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Day, Weekday, and WeekendDay. |
| dayOfWeekIndex | Integer | No | 1 | The Nth of dayOfWeek, for example, the first Sunday of every month or the first day of every January, you can use it together with daysOfWeek. It is configured when the RecurrenceType is RECURS_MONTH_NTH or RECURS_YEAR_NTH. The value can be 1(the first one), 2(the second one), 3(the third one), 4(the fourth one), and -1(the last one). |
| monthOfYear | Integer | No | 1-2 | The Nth month of a year, and it is configured when the RecurrenceType is RECURS_YEAR_NTH or RECURS_YEARLY. The value can be from 0 to 11, which indicates from January to December respectively. |

3.7.7 Range

Description: the range of the recurrence conference.

| Parameter | Type | Required | Description | Length |
|-----------------|---------|----------|---|--------|
| rangeStartDate | String | Yes | The start date of the conference, for example, 2018-07-27. | 10 |
| recurrenceRange | Integer | Yes | The recurrence type. The value can be, 1 (one of no end date), 2 (ending after several times), and 3 (ending after a specified date). | |
| occurrences | Integer | No | The times of the recurrence. | |
| rangeEndDate | String | No | The end date of the recurrence. | 10 |

3.7.8 ConferenceLiveBroadcast

Description: the settings of the live broadcast.

| Parameter | Type | Required | Length | Description |
|--------------|---------|----------|--------|--|
| enable | Boolean | Yes | | Enable the live broadcast or not. |
| definition | String | No | | The definition of the live broadcast, one of 720P or 360P. |
| videoSetting | String | No | | The video settings of the live broadcast, one of AVD, AV or AD. AVD means receiving the video and the contents. AV means receiving the video only. AD means receiving the contents only. |
| description | String | No | 0-800 | The event details. |

3.7.10 Recurrence Object

| Object | Description |
|----------------|---|
| Daily | recurrenceType=RECURS_DAILY Every two days: dailyType=1, interval=2 Every work day: dailyType=2 |
| Weekly | recurrenceType=RECURS_WEEKLY The Sundays and Mondays of every three weeks: interval=3, daysOfWeeks=["Sunday", "Monday"] |
| Monthly | The twelfth day of every three months: recurrenceType=RECURS_MONTHLY, interval=3, dayOfMonth=12 The first Sunday of every three months: recurrenceType=RECURS_MONTH_NTH, interval=3, dayOfWeekIndex=1, dayOfWeek=Sunday |
| Yearly | The twelfth day of every October: recurrenceType=RECURS_YEARLY, interval=1, monthOfYear=10, dayOfMonth=12 The second sunday of every October: recurrenceType=RECURS_YEAR_NTH, interval=1, monthOfYear=10, dayOfWeekIndex=2, dayOfWeek=Sunday |

3.7.11 The Object of a Single Conference

```
{
  "id": "20d58f7503fb4879a082023576071b0d", //The ID of a single Conference
  "conferencePlanId": "94a4da16320742ec80706378929d6164", //The conference plan ID
  "state": "ready", //The conference status
  "recurrenceId": "20171231T160000", //The ID of the conference agenda
  "isPresenter": false, //It means whether or not the current user you request is the presenter.
```

```

"isOrganizer": true, //It means whether or not the current user you request is the organizer.
"isRecurrence": false, //It means whether or not the current conference plan you request is a recurrence conference
"currentTimeStamp": Long, //The current timestamp of the server
"organizer": {
  "id": "219eee112d204316bef4bfc1e016805b", //The organizer ID
  "name": "fanghf3" //The organizer name
  "extension": "2309" //The extension number of the organizer
},
"confType": "VSC", //The conference type, one of NC(the general conference) or VGCP(the video conference)
"conferenceSubject": {
  "subject": "【创建】会议周期测试_夏令时", //The conference subject
  "subjectPinyin": "【chuangjian】huiyizhouqiceshi_xialingshi",
  "subjectPinyinAlia": "【cj】hyzqcs_xls"
},
"conferenceTimePattern": {
  "timeZone": {
    "zoneId": "Ulaanbaatar_Standard_Time", //The time zone ID
    "utcOffset": 28800, //The offset from this time zone to GMT time, in second unite
    "offsetDisplayName": "+08:00", //The time zone offset is converted into the hours and minutes format
    "cnZoneName": "(UTC+08:00)乌兰巴托", //The time zone in Chinese
    "usZoneName": "(UTC+08:00) Ulaanbaatar" //The time zone in English
  },
  "dstConfig": {
    "dstEnable": 1, //Enable the DST or not. If the value is 0, DST is disabled, if the value is 1, DST is enabled
    "dayLightDelta": 3600000 //The DST offset, in millisecond unit
  },
  "conferenceTime": {
    "startDate": "2018-01-01", //The conference start date
    "endDate": "2018-01-02", //The conference end date
    "startTime": "00:00", //The conference start time
    "endTime": "00:00", //The conference end time
    "startDateTimeStamp": 1514736000000, //The timestamp of the conference start time
    "endDateTimeStamp": 1514822400000, //The timestamp of the conference end time
    "startDateTimeStampNoDST": 1514736000000, //The timestamp of the conference start time when the DST is not
enabled
    "endDateTimeStampNoDST": 1514822400000 //The timestamp of the conference end time when the DST is not
enabled
  },
  "recurrencePattern": null
},
"participants": [{ //Refer to Parameter Object-Participant
  "id": "219eee112d204316bef4bfc1e016805b",
  "role": "organizer",
  "type": "internal",
  "email": "fangwq@yealink.com",
  "displayText": "fanghf3"
}],
"rooms": [{ //The information of the meeting room
  "id": "b3c5ae81030a46e496031569dbd25be5", //The ID of the meeting room
  "name": "视频会议室2", //The meeting room name
  "type": "vc_room" //The meeting room type, one of nc_room(the general meeting room) or vc_room(the video
conference room)
}],

```

```

"communication": {
  "profile": "default", //The mode of video conferences, one of default(the discussion mode) or demonstrator(the
training mode)
  "conferenceNumber": "1846884215", //The conference number
  "password": "511291", //The password of the video conference
  "vmr": null,
  "advanceConfig": {
    "conferenceLiveBroadcast": { //Refer to Parameter Object-ConferenceLiveBroadcast
      "enable": true,
      "definition": "720P",
      "videoSetting": "Video",
      "description": "活动详情",
      "qrCodeUrl": null,
      "startTime": null,
      "status": null,
      "watchUrl": null
    },
    "autoInviteEnable": false, //Enable Auto invitation or not
    "broadcastEnable": false, //Enable the broadcasting interactive or not
    "autoInviteAfterRegEnable": false, //Enable Auto invitation or not
    "autoInviteFwVersion": ["30", "40"], //The firmware version of the auto invited devices, is used for identifying the
devices. For more information, refer to The Supported Devices and Their Firmware Version
    "excessJoinEnable": null,
    "autoUnmuteEnable": true,
    "videoSourceChangeEnable": false
  }
},
"emailRemark": null,
"plainEmailRemark": null
}

```

3.7.12 Constants

Supported Devices and Firmware Version

| Model | Firmware version |
|-------------------|------------------|
| VC880/VC800/VC500 | 63 |
| VC400 | 30 |
| VC120 | 40 |
| VC110 | 50 |
| VC200 | 80 |
| T49G | 51 |
| T58 | 58 |
| Third-parties | Unknown |

Supported Languages

| ID | Language |
|----|------------|
| zh | Chinese |
| en | English |
| ru | Russian |
| es | Spanish |
| pl | Polish |
| pt | Portuguese |

4. Notes

[1] With different permission types, users can see different departments of the enterprise.

- A: the user can see all the contacts in the enterprise
- B: the user can see only the contacts in the same level departments as his department and the contacts in the subordinate departments
- C: the user can see only the contacts in his department
- D: the user can see only himself
- E: you can customize the group that is visible to the user

5. Error Messages

"addressConfig.validate.ivrPortBeg.not.null" : "ivr起始端口不能为空",

"addressConfig.validate.ivrPortEnd.not.null" : "ivr终止端口不能为空",
 "addressConfig.validate.bfcportBeg.not.null" : "bfcport起始端口不能为空",
 "addressConfig.validate.bfcportEnd.not.null" : "bfcport终止端口不能为空",
 "addressConfig.validate.signalTcpPortBeg.not.null" : "信令起始端口不能为空",
 "addressConfig.validate.signalTcpPortEnd.not.null" : "信令终止端口不能为空",
 "addressConfig.validate.relayUdpPortBeg.not.null" : "转发起始端口不能为空",
 "addressConfig.validate.relayUdpPortEnd.not.null" : "转发终止端口不能为空",
 "addressConfig.firewall.description" : "防火墙描述",
 "backupreduce.validate.type.not.null" : "类型不能为空",
 "backupreduce.validate.type.invalid" : "无效的类型",
 "backupreduce.validate.fileName.not.null" : "文件名称不能为空",
 "backupreduce.validate.fileName.invalid" : "文件名太长",
 "backupreduce.validate.fileName.repeat" : "文件名已存在",
 "backupreduce.result.backup.failed" : "备份文件失败",
 "backupreduce.backupFile.not.exist" : "备份文件不存在",
 "backupreduce.backupFile.invalid" : "备份文件无效",
 "backupreduce.result.reduce.failed" : "还原失败",
 "backupreduce.result.save.backupConfig.failed" : "保存自动备份配置失败",
 "backupreduce.validate.backupConfig.repeat.not.null" : "重复周期不能为空",
 "backupreduce.validate.backupConfig.repeat.invalid" : "重复周期无效",
 "backupreduce.validate.backupConfig.date.not.null" : "发生时间不能为空",
 "backupreduce.validate.backupConfig.maxfiles.not.null" : "最大自动备份文件数不能为空",
 "backupreduce.validate.uploadFile.invalid" : "上传的备份文件有误",
 "backupreduce.result.upload.backupConfig.failed" : "上传备份文件失败",
 "backupreduce.validate.file.not.null" : "备份文件不能为空",
 "callType.not.null" : "呼叫类型不能为空",
 "callType.is.error" : "呼叫类型错误",
 "confUuid.not.null" : "会议ID不能为空",
 "beginTime.not.null" : "开始时间不为空",
 "endTime.not.null" : "结束时间不为空",
 "callRecord.not.exist" : "通话记录不存在",
 "liveBroadcast.record.not.exist" : "直播记录不存在",
 "callRouting.not.exist" : "呼叫路由不存在",
 "callRouting.routeName.exist" : "路由名称已存在",
 "callRouting.routeName.not.null" : "路由名称不能为空",
 "callRouting.priority.not.null" : "优先级不能为空",
 "callRouting.expression.not.null" : "表达式不能为空",
 "callRouting.callTarget.not.null" : "呼叫目标不能为空",
 "capacityConfig.not.exist" : "配置不存在",
 "capacityConfig.arg.outOf.range" : "参数值不在允许范围内",
 "certificate.read.fail" : "读取证书失败",
 "certificate.fileName.not.null" : "文件名不能为空",
 "certificate.filePath.not.null" : "文件路径不能为空",
 "certificate.file.not.exist" : "设备固件文件不存在",
 "conference.start.gt.now.fiveminute" : "预约时间距会议开始时间不可小于5分钟",
 "conference.start.gt.end" : "结束时间不能小于等于开始时间",
 "conference.plan.not.found" : "会议记录没找到",
 "conference.plan.not.null" : "会议ID不能为空",
 "conferencen.record.recur.time.error" : "周期会议中单次会议的时间不能和系列中的其他会议冲突",
 "conference.appointmentId.not.null" : "邮件ID不能为空",
 "conference.recurrencepattern.error" : "会议周期模式有误",
 "conference.organizer.not.found" : "会议组织者不存在",
 "conference.account.not.found" : "帐号不存在",

"conference.recurrencepattern.pattern.not.null" : "周期模式不能为空",
 "conference.recurrencepattern.recurrencetype.not.null" : "周期循环模式不能为空",
 "conference.recurrencepattern.range.not.null" : "重复范围不能为空",
 "conference.subject.not.null" : "会议主题不能为空",
 "conference.timePattern.not.null" : "会议时间周期对象不能为空",
 "conference.time.not.null" : "会议时间对象不能为空",
 "conference.startDate.not.null" : "会议开始日期不能为空",
 "conference.endDate.not.null" : "会议结束日期不能为空",
 "conference.startTime.not.null" : "会议开始时间不能为空",
 "conference.endTime.not.null" : "会议结束时间不能为空",
 "conference.zoneld.not.null" : "会议时区不能为空",
 "conference.profile.not.null" : "会议模式不能为空",
 "conference.dstConfig.not.null" : "会议夏令时设置不能为空",
 "conference.organizerId.not.null" : "会议组织者不能为空",
 "conference.operationType.not.null" : "操作类型不能为空",
 "conference.confType.not.null" : "会议类型不能为空",
 "conference.confType.incorrect" : "会议类型不正确",
 "conference.isprivate.not.null" : "是否使用私有云不能为空",
 "conference.vmrId.not.null" : "视频服务器资源不能为空",
 "conference.hasViewer.not.null" : "是否选择了观众不能为空",
 "conference.querydate.not.null" : "查询日期不能为空",
 "conference.daycount.not.null" : "查询日期的间隔天数不能为空",
 "conference.daycount.min.one.day" : "查询日期的最小天数为1",
 "conference.record.not.found" : "会议记录没找到",
 "conference.number.not.null" : "会议号码不能为空",
 "conference.record.id.not.null" : "会议ID不能为空",
 "conference.status.not.null" : "会议状态不能为空",
 "conference.roomIds.not.null" : "会议室ID不能为空",
 "conference.account.can.not.book" : "该登陆帐号无法预约会议",
 "conference.permission.can.not.deleteor.edit" : "没有删除或者编辑会议的权限",
 "conference.state.series.can.not.edit" : "该系列会议正在进行, 无法编辑",
 "conference.state.item.can.not.edit" : "该会议正在进行, 无法编辑",
 "conference.state.end.can.not.edit" : "该会议已结束, 无法编辑",
 "conference.room.can.not.delete.as.frontend.vmr" : "会议室作为前端开会资源在使用, 无法删除",
 "conference.resource.time.conflict" : "时间冲突",
 "conference.dstConfig.dstEnable.not.null" : "是否启动夏令时不能为空",
 "conference.dstConfig.dayLightDelta.not.null" : "夏令时默认偏移量不能为空",
 "conference.has.ready.or.ongoing.by.organizer.can.not.edit" : "帐号作为组织者绑定的会议有待开的或者正在进行的, 无法编辑",
 "conference.has.ready.or.ongoing.by.room.can.not.edit" : "绑定的会议有待开的或者正在进行的, 无法编辑",
 "conference.has.ready.or.ongoing.can.not.edit" : "绑定的会议有待开的或者正在进行的, 无法编辑",
 "conference.has.ongoing.can.not.edit" : "存在正在进行的会议, 无法编辑",
 "mail.template.conference.record.id.not.null" : "邮件模板会议ID不能为空",
 "mail.template.language.not.null" : "邮件模板语言不能为空",
 "mail.template.utcoffset.not.null" : "邮件模板时区偏移量不能为空",
 "mail.template.is.dst.not.null" : "邮件模板是否夏令时不能为空",
 "mail.template.is.subject.null" : "邮件模板主题不能为空",
 "mail.template.starttime.not.null" : "邮件模板开始时间不能为空",
 "mail.template.number.not.null" : "邮件模板会议号码不能为空",
 "mail.send.receiver.not.empty" : "邮件发送接收者不能为空",
 "mail.send.content.not.null" : "邮件发送内容不能为空",
 "mail.send.subject.not.null" : "邮件发送主题不能为空",
 "participant.id.not.null" : "参会者的ID不能为空",

"participant.role.not.null": "参会者的角色不能为空",
 "participant.type.not.null": "参会者的类型不能为空",
 "schedules.is.empty": "日程数据为空, 请校验",
 "conference.number.not.enough": "会议号码不足",
 "conference.over.capacity": "预约会议数量超过最大限制",
 "participant.number.over.capacity": "参会人数量超过最大限制",
 "conference.invalid.date": "无效的日期",
 "conference.invalid.time": "无效的时间",
 "conference.physical.conference.room.disable": "预约实体会议室的功能已经关闭",
 "conference.queryType.not.null": "会议查询类型不能为空",
 "conference.broadcast.disable": "广播互动功能已经关闭",
 "conference.autoInviteAfterReg.disable": "断线从邀功能已经关闭",
 "conference.autoUnmute.disable": "点名时自动静音功能已经关闭",
 "conference.videoSourceChange.disable": "仅支持发送辅流功能已经关闭",
 "conference.range.end.date.over.limit": "周期会议最大结束时间超过限制",
 "conference.has.create.or.ongoing.by.room.can.not.delete": "会议室作为正在被使用, 无法删除",
 "conference.emailRemark.too.long": "备注内容最多不可超过1500字",
 "conference.setSelfView.disable": "本地画面加入MCU混屏功能已经关闭",
 "conference.room.not.exist": "会议室不存在",
 "conference.room.name.exist": "名称已存在",
 "conference.room.name.length.error": "名称为1-128个字符",
 "conference.room.type.not.null": "类型不能为空",
 "conference.room.accountId.not.null": "绑定帐号不能为空",
 "conference.room.accountId.not.exist": "绑定帐号不存在",
 "conference.room.accountName.not.null": "帐号名称不能为空",
 "conference.room.over.capacity": "会议室数量超过最大限制",
 "config.h323Enable.not.null": "H.323服务是否开启不能为空",
 "config.serviceNumberSyncEnable.not.null": "云视讯体验大厅与技术支持联系人是否同步不能为空",
 "device.can.not.bind": "该视频设备不可绑定",
 "device.not.found": "找不到视频设备",
 "device.account.not.null": "帐号不能为空",
 "device.account.pin.null": "PIN不能为空",
 "device.over.capacity": "会议室设备帐号数量超过最大限制",
 "diskConfig.mailEnable.not.null": "邮件启用不能为空",
 "diskConfig.defaultPath.not.null": "默认存储路径不能为空",
 "diskConfig.modules.not.null": "模块不能为空",
 "diskConfig.id.not.null": "ID不能为空",
 "diskConfig.not.exist": "磁盘配置不存在",
 "service.expired": "服务已到期, 请续费后使用",
 "enterprise.mail.already.sent": "邮件已发送, 请稍候再试",
 "enterprise.over.capacity": "企业数量已到达上限",
 "enterprise.accredit.lock": "帐号已被锁定, 无法授权",
 "excess.not.exist": "超额不存在",
 "excessItem.not.exist": "超额详情不存在",
 "external.contacts.type.not.null": "类型不能为空",
 "external.contacts.type.invalid": "无效的类型",
 "external.contacts.number.not.null": "号码不能为空",
 "external.contacts.number.already.exist": "外部号码已经存在",
 "external.contacts.import.number.repeat": "导入数据中的号码重复",
 "external.contacts.over.capacity": "外部联系人数量超过最大限制",
 "external.contacts.invalid.sip.number": "无效的SIP号码",
 "external.contacts.number.length.error": "号码长度1-128位",
 "external.contacts.not.exist": "其他账号不存在",

"firmware.exist" : "设备固件已存在",
 "firmware.not.exist" : "设备固件不存在",
 "firmware.readRom.fail" : "无法读取固件版本或型号信息, 请检查rom文件",
 "firmware.romFileConfig.not.exist" : "该固件尚未配置rom信息",
 "firmware.fileName.not.null" : "文件名不能为空",
 "firmware.filePath.not.null" : "文件路径不能为空",
 "firmware.file.not.exist" : "设备固件文件不存在",
 "h323Config.h323Name.too.long" : "H323名称太长",
 "h323Config.gkAddress.too.long" : "网守服务器太长",
 "h323Config.gkUsername.too.long" : "GK账号太长",
 "h323Config.gkPassword.too.long" : "GK密码太长",
 "h323Config.gkName.too.long" : "GK名称太长",
 "h323Config.gkTtl.out.range" : "TTL超时时间不在允许范围内",
 "h323Config.gklrr.out.range" : "IRR超时时间不在允许范围内",
 "h323Config.h323.not.exist" : "H323配置不存在",
 "h323Config.gk.not.exist" : "GK配置不存在",
 "h323gk.validate.description.too.long" : "描述太长",
 "h323gk.validate.gkName.not.null" : "GK标识符不能为空",
 "h323gk.validate.gkName.too.long" : "GK标识符太长",
 "h323gk.validate.gkTtl.out.range" : "TTL超时时间",
 "h323gk.validate.gklrr.out.range" : "IRR超时时间",
 "h323gk.validate.gkRasPort.not.null" : "RAS端口不能为空",
 "h323gk.validate.gkRasPort.invalid" : "RAS端口无效",
 "h323gk.validate.gkMulticastRasPort.not.null" : "组播RAS端口不能为空",
 "h323gk.validate.gkMulticastRasPort.invalid" : "组播RAS端口无效",
 "h323gk.validate.gkQ931Port.not.null" : "Q.931端口范围不能为空",
 "h323gk.validate.gkH225Port.not.null" : "H.225监听端口不能为空",
 "h323gk.validate.gkH225Port.invalid" : "H.225监听端口无效",
 "h323gk.validate.gkH245Port.not.null" : "H.245端口范围不能为空",
 "h323gk.validate.gkProxyPort.not.null" : "媒体代理端口范围不能为空",
 "h323gk.firewall.description" : "防火墙描述",
 "h323gw.validate.gwUsername.not.null" : "注册用户名不能为空",
 "h323gw.validate.gwUsername.too.long" : "注册用户名太长",
 "h323gw.validate.gwGkAddr.invalid" : "GK地址不能为空",
 "h323gw.validate.gwGkAuthName.not.null" : "鉴权名称不能为空",
 "h323gw.validate.gwGkAuthPwd.not.null" : "鉴权密码不能为空",
 "h323gw.validate.gwH225Port.not.null" : "H.225监听端口不能为空",
 "h323gw.validate.gwH225Port.invalid" : "H.225监听端口无效",
 "h323gw.validate.gwQ931H245Port.not.null" : "GW Q931/H.245端口范围不能为空",
 "h323gw.validate.gwH235.not.null" : "GW H.235加密类型不能为空",
 "h323gw.validate.gwH235.invalid" : "GW H.235加密类型无效",
 "h323gw.firewall.description" : "防火墙描述",
 "ldap.exception.connect.error" : "无法连接到AD服务器",
 "ldap.exception.auth.error" : "用户名或密码错误",
 "ldap.exception.basedn.error" : "基础错误",
 "ldap.exception.attr.notexist" : "属性{0}不存在",
 "ldap.exception.login.error" : "AD账号或密码错误",
 "ldap.exception.param.error" : "AD服务器配置参数错误",
 "ldap.exception.account.notexist" : "AD账号不存在",
 "ldap.enable.not.null" : "是否启用不能为空",
 "ldap.server.host.invalid" : "AD服务器地址无效",
 "ldap.server.port.not.null" : "AD服务器端口不能为空",
 "ldap.server.port.invalid" : "AD服务器端口无效",

"ldap.base.dn.invalid" : "AD基础DN无效",
 "ldap.login.username.invalid" : "AD登录用户名无效",
 "ldap.login.password.invalid" : "AD登录密码无效",
 "ldap.account.attr.invalid" : "AD帐号属性无效",
 "ldap.name.attr.invalid" : "名称属性无效",
 "ldap.number.attr.invalid" : "号码属性无效",
 "livebroadcast.rtmpConfig.not.exist" : "直播配置不存在或不正确",
 "livebroadcast.duration.not.null" : "时间不能为空",
 "livebroadcast.startTime.not.null" : "开始时间不能为空",
 "livebroadcast.endTime.not.null" : "结束时间不能为空",
 "livebroadcast.not.exist" : "直播不存在",
 "login.auth.error.username.password" : "用户名或密码错",
 "login.auth.error.locked" : "帐号密码错误, 您的帐号已经被锁定5分钟",
 "login.auth.invalid.ip" : "无效的登录ip",
 "mailConfig.name.length.invalid" : "邮箱服务器名称长度不合法",
 "mailConfig.host.not.null" : "密码不能为空",
 "mailConfig.host.length.invalid" : "密码长度不能为空",
 "mailConfig.port.not.null" : "端口不能为空",
 "mailConfig.port.invalid" : "无效的端口值",
 "mailConfig.username.not.null" : "用户名不能为空",
 "mailConfig.username.length.invalid" : "用户名长度不合法",
 "mailConfig.receiver.not.null" : "接收者不能为空",
 "mailConfig.sender.not.null" : "发件箱不能为空",
 "mailConfig.userSecure.not.null" : "是否启用安全连接不能为空",
 "mailConfig.smtp.config.is.null" : "邮箱服务未配置, 无法发送邮件",
 "mailConfig.smtp.connect.failed" : "连接邮箱服务器失败",
 "mcu.validate.name.not.null" : "名称不能为空",
 "mcu.validate.name.too.long" : "名称太长",
 "mcu.validate.name.repeat" : "名称已存在",
 "mcu.validate.asnid.not.null" : "节点id不能为空",
 "mcu.validate.asnid.repeat" : "节点已存在",
 "mcu.validate.nid.not.null" : "网络id不能为空",
 "mcu.validate.mediaUdpPortBeg.not.null" : "媒体起始端口不能为空",
 "mcu.validate.mediaUdpPortEnd.not.null" : "媒体终止端口不能为空",
 "mcu.config.not.exist" : "配置不存在",
 "mpsCastDeploy.firewall.description" : "防火墙描述",
 "mpsDeploy.firewall.description" : "防火墙描述",
 "mpsLiveCastDeploy.firewall.description" : "防火墙描述",
 "mpsSfbGwDeploy.firewall.description" : "防火墙描述",
 "mcustatistics.validate.type.not.null" : "类型不能为空",
 "mcustatistics.validate.type.invalid" : "无效的类型",
 "mcustatistics.beginTime.not.null" : "开始时间不为空",
 "mcustatistics.endTime.not.null" : "结束时间不为空",
 "napt.validate.address.not.null" : "IP不能为空",
 "napt.validate.port.not.null" : "端口不能为空",
 "napt.validate.port.invalid" : "端口无效",
 "order.suite.type.not.null" : "套餐类型不能为空",
 "order.mac.invalid" : "MAC地址不正确",
 "order.mac.already.exists.in.other.enterprise" : "MAC地址已在其它企业存在",
 "order.mac.of.validity.overlay" : "MAC地址对应订单有效期重叠",
 "order.mac.duplicate" : "MAC地址重复",
 "order.deadline.not.null" : "期限不能为空",
 "order.effective.date.not.null" : "生效日期不能为空",

"order.effective.date.stamp.not.null" : "生效日期时间戳不能为空",
 "order.zone.time.not.null" : "时区不能为空",
 "order.suite.type.different.from.existed.order" : "套餐类型与已有订单类型不同",
 "order.specified.ineffective.or.inService.not.exist" : "被指定的订单无法进行终止操作",
 "order.terminate.failed" : "订单删除失败",
 "order.effective.date.out.range" : "订单生效时间不在允许范围内",
 "order.item.not.null" : "订单项不能为空",
 "order.remark.length.not.match" : "订单备注长度不符合要求",
 "order.deadline.out.range" : "订单期限不合法",
 "order.amount.out.of.range" : "数量范围不合法",
 "order.date.format.not.match" : "订单日期格式不符",
 "order.type.not.null" : "订单类型不能为空",
 "order.revoke.failed" : "订单撤销失败",
 "order.export.over.limit" : "导出订单量过大, 请缩小查询范围",
 "order.revoke.over.time" : "超过24小时不可撤销",
 "order.revoke.recharge.failed" : "充值订单不可撤销",
 "order.not.exist" : "不存在订单",
 "order.experience.recharge.over.limit" : "体验订单重置数额超出上限",
 "recording.not.exist" : "录播不存在",
 "recording.recordConfig.not.null" : "录播配置不能为空",
 "recording.resource.not.exist" : "录播室资源不存在",
 "recording.recordingServer.cannot.access" : "录播服务器无法访问",
 "recording.recordingServer.operation.fail" : "录播服务器操作失败",
 "resource.dispatcher.no.resource" : "当前无可用服务器资源",
 "resource.dispatcher.profile.not.supported" : "私有云模式下不支持主席模式的会议",
 "resource.dispatcher.viewer.not.supported" : "私有云模式下不支持添加观众",
 "resource.dispatcher.viewer.not.enable" : "未开启直播, 不能选观众",
 "resource.dispatcher.not.cloud.or.not.exist" : "Vmr已经失效或者该VMR不是云端VMR",
 "auditLog.restart.module" : "重启模块",
 "auditLog.restart.operation" : "重启服务",
 "auditLog.reboot.operation" : "重启服务器",
 "auditLog.reset.module" : "恢复出厂模块",
 "auditLog.reset.operation" : "恢复出厂",
 "romFileConfig.not.exist" : "rom文件配置不存在",
 "securitygroup.not.exist" : "白名单不存在",
 "securitygroup.name.exist" : "名称已存在",
 "serverLog.startDate.not.null" : "开始日期不能为空",
 "serverLog.endDate.not.null" : "结束日期不能为空",
 "serverLog.nodes.not.null" : "节点不能为空",
 "serverLog.modules.not.null" : "模块不能为空",
 "serverLog.file.not.exist" : "文件不存在",
 "serverNode.not.master" : "当前节点不是主节点, 请重新请求!",
 "serverNode.node.not.exist" : "节点不存在",
 "serverNode.masterNode.not.exist" : "主节点不存在",
 "serverNode.no.valid.network" : "无可用网卡",
 "serviceConfig.conferenceTimeZone.not.null" : "是否开启不能空",
 "serviceConfig.type.not.null" : "服务类型不能为空",
 "serviceConfig.scope.not.null" : "服务范围不能为空",
 "sfb.not.exist" : "SFB配置不存在",
 "sfb.gatewayName.exist" : "名称已存在",
 "sfb.gatewayName.not.null" : "名称不能为空",
 "sfb.gatewayName.too.long" : "名称过长",
 "sfb.sfbServerHost.not.null" : "SFB服务器域名不能为空",

"sfb.sfbServerHost.too.long" : "SFB服务器域名过长",
 "sfb.sfbServerPort.not.null" : "SFB服务器端口不能为空",
 "sfb.sfbServerPort.invalid" : "SFB服务器端口无效",
 "sfb.transport.not.null" : "传输协议不能为空",
 "sfb.extranet.not.null" : "呼出网络不能为空",
 "sfb.localPort.not.null" : "本地端口不能为空",
 "sfb.localPort.invalid" : "本地端口无效",
 "sfb.outboundHost.not.null" : "代理服务器不能为空",
 "sfb.outboundHost.invalid" : "代理服务器过长",
 "sfb.outboundPort.not.null" : "代理服务器端口不能为空",
 "sfb.outboundPort.invalid" : "代理服务器端口无效",
 "sfb.reg.too.long" : "表达式匹配过长",
 "sfb.replaceStr.too.long" : "替换字符串过长",
 "sipcommon.validate.name.not.null" : "名称不能为空",
 "sipcommon.validate.name.too.long" : "名称太长",
 "sipcommon.validate.name.repeat" : "名称已存在",
 "sipcommon.validate.asnid.not.null" : "节点id不为空",
 "sipcommon.validate.nid.not.null" : "网络id不为空",
 "sipcommon.validate.port.invalid" : "端口无效",
 "sipcommon.validate.port.not.null" : "端口不能为空",
 "sipcommon.validate.transport.invalid" : "传输方式无效",
 "sipcommon.validate.transport.not.null" : "传输方式不能为空",
 "sipcommon.config.not.exist" : "配置不存在",
 "sipcommon.config.portRange.too.short" : "端口范围不能少于1000",
 "simplCallDeploy.firewall.description" : "防火墙描述",
 "ivr.menuName.not.null" : "名称不能为空",
 "ivr.menuName.invalid" : "名称无效",
 "ivr.useSounds.not.null" : "提示音类型不能为空",
 "ivr.useSounds.invalid" : "提示音类型不能无效",
 "ivr.customSoundsDir.not.null" : "提示音文件目录不能为空",
 "ivr.customSoundsDir.invalid" : "提示音文件目录无效",
 "ivr.customWelcomeSound.not.null" : "提示音文件名称不能为空",
 "ivr.customWelcomeSound.invalid" : "提示音文件名称无效",
 "ivr.enableFirstLevelDial.invalid" : "是否允许直拨内线分机号不能为空",
 "ivr.entry.digits.not.null" : "按键号码不能为空",
 "ivr.entry.digits.invalid" : "按键号码无效",
 "ivr.entry.option.not.null" : "按键操作不能为空",
 "ivr.entry.option.invalid" : "按键操作无效",
 "ivr.entry.target.not.null" : "操作参数不能为空",
 "ivr.entry.target.invalid" : "操作参数无效",
 "ivr.upload.flag.not.null" : "文件上传标识不能为空",
 "ivr.upload.file.format.invalid" : "上传的音频文件格式必须为.wav, 大小不能超过10M",
 "ivr.upload.error" : "上传失败",
 "ivr.upload.file.invalid" : "音频文件无效",
 "ivr.upload.file.not.exist" : "音频文件不存在",
 "sippeertrunkdeploy.validate.outboundServer.not.null" : "代理服务器地址不能为空",
 "sippeertrunkdeploy.validate.outboundPort.invalid" : "代理服务器端口无效",
 "sippeertrunkdeploy.validate.outboundPort.not.null" : "代理服务器端口不能为空",
 "sippeertrunkdeploy.firewall.description" : "防火墙描述",
 "sipProxyDeploy.not.exist" : "服务器不存在",
 "sipProxyDeploy.port.not.all.null" : "端口不能都为空",
 "sipProxyDeploy.firewall.description" : "防火墙描述",
 "sippstndeploy.validate.gatewayAddr.not.null" : "网关地址不能为空",

"sippstndeploy.validate.gatewayAddr.invalid" : "网关地址无效",
 "sippstndeploy.validate.gatewayPort.not.null" : "网关端口不能为空",
 "sippstndeploy.validate.gatewayPort.invalid" : "网关端口无效",
 "sippstndeploy.firewall.description" : "防火墙描述",
 "sipRegistrarRedirectDeploy.not.exist" : "服务器不存在",
 "sipRegistrarRedirectDeploy.expires.not.null" : "最大续约周期不能为空",
 "sipRegistrarRedirectDeploy.ip.not.null" : "IP不能都为空",
 "sipRegistrarRedirectDeploy.port.not.all.null" : "端口不能都为空",
 "sipRegistrarRedirectDeploy.firewall.description" : "防火墙描述",
 "sipregtrunkdeploy.validate.url.not.null" : "sip账号信息不能为空",
 "sipregtrunkdeploy.validate.authUsername.not.null" : "鉴权名不能为空",
 "sipregtrunkdeploy.validate.authRealm.not.null" : "鉴权域不能为空",
 "sipregtrunkdeploy.validate.a1Hash.not.null" : "密码不能为空",
 "sipregtrunkdeploy.validate.expires.not.null" : "续约周期不能为空",
 "sipregtrunkdeploy.validate.expires.invalid" : "续约周期无效",
 "sipregtrunkdeploy.validate.outboundServer.not.null" : "代理服务器地址不能为空",
 "sipregtrunkdeploy.validate.outboundPort.not.null" : "代理服务器端口不能为空",
 "sipregtrunkdeploy.validate.outboundPort.invalid" : "代理服务器端口无效",
 "sipregtrunkdeploy.firewall.description" : "防火墙描述",
 "sipsfbtrunkdeploy.validate.sfbHost.not.null" : "SfB域名不能为空",
 "sipsfbtrunkdeploy.validate.sfbPort.not.null" : "SfB端口不能为空",
 "sipregtrunkdeploy.validate.sfbPort.invalid" : "SfB端口无效",
 "sipsfbtrunkdeploy.validate.outboundServer.not.null" : "代理服务器地址不能为空",
 "sipsfbtrunkdeploy.validate.outboundPort.not.null" : "代理服务器端口不能为空",
 "sipsfbtrunkdeploy.validate.outboundPort.invalid" : "代理服务器端口无效",
 "sipsfbtrunkdeploy.firewall.description" : "防火墙描述",
 "sipThirdPartyRegistrarDeploy.not.exist" : "服务器不存在",
 "sipThirdPartyRegistrarDeploy.port.not.all.null" : "端口不能都为空",
 "sipThirdPartyRegistrarDeploy.firewall.description" : "防火墙描述",
 "softwareversion.version.file.not.exist" : "版本信息文件不存在",
 "softwareversion.version.file.cannot.read" : "版本信息文件不可读",
 "softwareversion.version.info.query.error" : "获取版本信息异常",
 "staff.extension.not.null" : "分机号不能为空",
 "staff.extension.invalid" : "分机号无效",
 "staff.over.import.limit" : "最多导入1000条数据",
 "staff.import.data.not.empty" : "导入的数据不能为空",
 "staff.import.extension.repeat" : "导入数据中的分机号重复",
 "staff.not.exist" : "找不到指定用户",
 "staff.over.capacity" : "用户帐号数量超过最大限制",
 "staff.title.length.error" : "职位长度不合法",
 "staff.org.not.null" : "部门不能为空",
 "staff.import.file.not.null" : "导入文件不能为空",
 "staff.import.file.invalid" : "导入文件格式有误",
 "staff.import.ldapAccountName.repeat" : "导入数据中的AD账号重复",
 "staff.import.permission.org.not.exist" : "可见分组不存在",
 "config.not.exist" : "设置不存在",
 "talkConfig.defaultLayout.not.null" : "默认布局不能为空",
 "talkConfig.videoDividedMode.not.null" : "等分模式不能为空",
 "talkConfig.intervalForDivided.not.null" : "等分模式下的轮巡时间不能为空",
 "talkConfig.tourRoundForDividedMode.not.null" : "等分模式下的轮巡模式不能为空",
 "talkConfig.videoOneplusNMode.not.null" : "1+N模式不能为空",
 "talkConfig.intervalForOneplusNMode.not.null" : "1+N模式下的轮巡时间间隔不能为空",
 "talkConfig.numberofPicForOneplusNMode.not.null" : "1+N模式下的轮巡张数不能为空",

"talkConfig.tourRoundForOneplusNMode.not.null" : "1+N模式下的轮巡模式不能为空",
 "talkConfig.numberofVoiceAcvitedTime.not.null" : "语音激励时间不能为空",
 "talkConfig.forwardMeetingTime.not.null" : "提前入会时间不能为空",
 "talkConfig.ivrLanguage.not.null" : "IVR语言不能为空",
 "talkConfig.not.exist" : "通话设置不存在",
 "talkConfig.videoDividedMode.out.range" : "等分模式等分数不在允许范围内",
 "talkConfig.videoOneplusNMode.out.range" : "1+N模式N值不再允许范围内",
 "talkConfig.intervalForDivided.out.range" : "等分模式下的轮巡时间不在允许范围内",
 "talkConfig.intervalForOneplusNMode.out.range" : "1+N模式下的轮巡时间不在允许范围内",
 "talkConfig.numberofPicForOneplusNMode.out.range" : "1+N模式下的轮巡张数不在允许范围内",
 "talkConfig.numberofVoiceAcvitedTime.out.range" : "语音激励时间不在允许范围内",
 "talkConfig.forwardMeetingTime.out.range" : "提前入会时间不在允许范围内",
 "talkConfig.tourRoundForDividedMode.out.range" : "等分模式下的轮巡模式不在允许范围内",
 "talkConfig.tourRoundForOneplusNMode.out.range" : "1+N模式下的轮巡模式不在允许范围内",
 "talkConfig.maxVideoResolution.not.null" : "最大视频分辨率不能为空",
 "talkConfig.maxSecondaryFlowResolution.not.null" : "最大辅流分辨率不能为空",
 "talkConfig.maxBandwidth.not.null" : "最大带宽不能为空",
 "talkConfig.maxBandwidth.out.range" : "最大带宽不在允许范围内",
 "talkConfig.autoInviteFwVersion.not.null" : "终端类型不能为空",
 "talkConfig.showRoomTypes.not.null" : "会场类型不能为空",
 "talkConfig.rtmp.config.not.null" : "RTMP配置不能为空",
 "talkConfig.rtmp.domain.not.null" : "域名不能为空",
 "talkConfig.rtmp.liveDomain.not.null" : "直播域名不能为空",
 "talkConfig.rtmp.appName.not.null" : "App名称不能为空",
 "talkConfig.rtmp.authorityKey.not.null" : "鉴权Key不能为空",
 "talkConfig.record.ip.not.null" : "录播服务器IP不能为空",
 "talkConfig.record.webPort.not.null" : "录播服务器web端口不能为空",
 "talkConfig.record.httpPort.not.null" : "录播服务器http接口端口不能为空",
 "talkConfig.record.xmlrpcPort.not.null" : "录播服务器rpc接口端口不能为空",
 "talkConfig.record.xmlrpcUsername.not.null" : "录播服务器rpc接口用户名不能为空",
 "talkConfig.record.xmlrpcPassword.not.null" : "录播服务器rpc接口密码不能为空",
 "talkConfig.record.config.not.null" : "录播服务器配置不能为空",
 "talkConfig.rtmp.logo.not.exist" : "Logo不存在",
 "talkConfig.rtmp.logo.resolution.invalid" : "仅支持300*300大小的PNG、JPG格式的图片, 大小限1M",
 "template.content.not.null" : "内容不能为空",
 "template.code.exist" : "模版编码已存在",
 "template.not.exist" : "模板不存在",
 "template.code.not.null" : "模板编码不能为空",
 "template.language.not.null" : "模板语言不能为空",
 "template.subject.not.null" : "模板主题不能为空",
 "template.receiver.type.not.null" : "接收者类型不能为空",
 "termAutoUpdateConfig.autoUpdate.not.null" : "启用不能为空",
 "termAutoUpdateConfig.not.exist" : "设备升级不存在",
 "terminalLog.file.not.exist" : "文件不存在",
 "terminalLog.enable.not.null" : "启用不能为空",
 "timeConfig.conferenceTimeZone.not.null" : "时区不能为空",
 "timeConfig.conferenceTimeZone.not.exist" : "时区不存在",
 "timeConfig.summerTime.not.null" : "夏令时不能为空",
 "timeConfig.not.exist" : "时间设置不存在",
 "timeConfig.summerTime.out.range" : "夏令时设置不在允许的范围内",
 "timeConfig.snmpEnable.not.null" : "SNTP不能为空",
 "timeConfig.systemTimeZone.not.null" : "系统时区不能为空",
 "timeConfig.systemTimeZone.not.exist" : "系统时区不存在",

"timeConfig.timeServer.not.null" : "服务器域名不能为空",
 "timeConfig.systemTime.not.null" : "手动设置的当前时间不能为空",
 "timeZone.checkedtime.not.null" : "校验时间不能为空",
 "turnserver.validate.listenPort.not.null" : "UDP&TCP 监听端口不能为空",
 "turnserver.validate.listenPort.invalid" : "UDP&TCP 监听端口无效",
 "turnserver.validate.alterListenPort.not.null" : "备用监听端口不能为空",
 "turnserver.validate.alterListenPort.invalid" : "备用监听端口无效",
 "turnserver.validate.tlsListenPort.not.null" : "TLS(DTLS)监听端口不能为空",
 "turnserver.validate.tlsListenPort.invalid" : "TLS(DTLS)监听端口无效",
 "turnserver.validate.alterTlsListenPort.not.null" : "备用TLS(DTLS)监听端口不能为空",
 "turnserver.validate.alterTlsListenPort.invalid" : "备用TLS(DTLS)监听端口无效",
 "turnserver.firewall.description" : "防火墙描述",
 "upgrade.fileName.not.null" : "文件名不能为空",
 "upgrade.filePath.not.null" : "文件路径不能为空",
 "upgrade.file.not.exist" : "文件不存在",
 "url.request.fail" : "url数据请求失败",
 "json.data.parse.fail" : "json数据解析失败",
 "ip.address.format.error" : "ip地址格式错误",
 "vmr.vmrId.not.null" : "云会场号码不能为空",
 "vmr.vmrId.exist" : "VMR ID已存在",
 "vmr.vmrId.invalid" : "VMR ID第六位不能为0、1、9",
 "vmr.vmrId.length.error" : "VMR ID为10位数字",
 "vmr.not.exist" : "云会场不存在",
 "vmr.name.not.null" : "名称不能为空",
 "vmr.name.exist" : "名称已存在",
 "vmr.name.length.error" : "名称为2-128个字符",
 "vmr.type.not.null" : "类型不能为空",
 "vmr.mode.not.null" : "会议模式不能为空",
 "vmr.mode.incorrect" : "错误的会议模式",
 "vmr.password.not.null" : "密码不能为空",
 "vmr.limit.not.null" : "方数不能为空",
 "vmr.limit.not.range.error" : "方数不能小于0",
 "vmr.orderId.not.null" : "订单ID不能为空",
 "vmr.terminalType.not.null" : "终端类型不能为空",
 "vmr.terminalType.not.exist" : "终端类型不存在",
 "vmr.syncDirectory.not.null" : "是否同步地址簿标志不能为空",
 "vmr.maxAccess.out.range" : "最大容量限制范围1-1000",
 "vmr.can.not.delete" : "无法删除VMR",
 "vmr.status.not.exist" : "状态不存在",
 "vmr.status.not.null" : "状态不能为空",
 "vmr.can.not.disable" : "不能禁用在线的云会场",
 "vmr.can.not.add.cloudPort.vmr" : "没有添加云会场的权限",
 "vmr.over.capacity" : "云会场数量超过最大限制",
 "vmr.can.not.edit" : "过期的VMR不可编辑",
 "vmr.receivers.not.null" : "收件人不能为空",
 "vmr.subject.not.null" : "主题不能为空",
 "vmr.time.not.null" : "开始时间不能为空",
 "vmr.zoneId.not.null" : "会议时区不能为空",
 "vmr.content.not.null" : "内容不能为空",
 "vmr.VmrCategory.not.exist" : "云会场分组不存在",
 "vmr.maxAudioAccess.out.range" : "最大纯音频方数超出范围",
 "enterprise.has.accessKey" : "已拥有AccessKey",
 "enterprise.not.has.accessKey" : "没有AccessKey",

"businessAccount.validator.principle.not.null" : "帐号身份不能为空",
 "businessAccount.validator.type.not.null" : "帐号身份不能为空",
 "businessAccount.validator.staffId.not.null" : "用户ID不能为空",
 "businessAccount.validator.account.not.found" : "未找到业务帐号",
 "businessAccount.validator.account.already.exist" : "业务帐号已存在",
 "common.validator.search.key.too.long" : "搜索关键字太长",
 "common.validator.id.not.null" : "ID不能为空",
 "common.validator.for.forgetPasswordCode.not.null" : "忘记密码激活码不能为空",
 "common.validator.for.forgetPasswordCode.invalid" : "忘记密码激活码验证失败",
 "common.validator.email.not.null" : "邮箱不能为空",
 "common.validator.email.not.exist" : "该邮箱不存在",
 "common.validator.email.invalid" : "无效的邮箱",
 "common.validator.email.too.long" : "邮箱太长",
 "common.validator.email.exist" : "邮箱已注册",
 "common.validator.extension.not.null" : "分机号不能为空",
 "common.validator.extension.length.error" : "分机号长度为4位数字",
 "common.validator.extension.is.num" : "分机号必须为数字",
 "common.validator.extension.exist" : "分机号不可重复",
 "common.validator.username.not.null" : "用户名不能为空",
 "common.validator.username.too.long" : "用户名太长",
 "common.validator.password.not.null" : "密码不能为空",
 "common.validator.password.invalid" : "密码格式不正确",
 "common.validator.name.not.null" : "名称不能为空",
 "common.validator.name.too.long" : "名称太长",
 "common.validator.name.exist" : "名称已存在",
 "common.validator.name.length.error" : "名称长度为1-128个字符",
 "common.validator.enterprisId.not.null" : "企业ID不能为空",
 "common.validator.country.invalid" : "无效的国家",
 "common.validator.country.not.null" : "国家不能为空",
 "common.validator.realm.not.null" : "域不能为空",
 "common.validator.domain.not.null" : "域不能为空",
 "common.validator.mac.not.null" : "物理地址不能为空",
 "common.validator.org.not.exist" : "组织节点不存在",
 "common.validator.org.path.not.null" : "部门路径不能为空",
 "common.validator.phone.number.invalid" : "联系电话不合法",
 "common.validator.pager.not.null" : "分页对象不能为空",
 "common.validator.update.values.not.null" : "更新内容不能为空",
 "audit.query.list.invalidate" : "skip不合法",
 "audit.query.limit.invalidate" : "limit不合法",
 "common.validator.description.too.long" : "描述太长",
 "common.validator.website.invalidate" : "网址不合法",
 "common.validator.website.too.long" : "网址太长",
 "common.validator.length.too.long" : "长度太长",
 "common.validator.time.not.format" : "时间格式不合法",
 "common.validator.address.too.long" : "地址长度不合法",
 "common.validator.accountType.not.null" : "accountType不能为空",
 "common.validator.viewPermissionType.invalid" : "可视权限类型无效",
 "common.validator.viewPermission.error" : "可视权限错误",
 "common.validator.viewPermission.not.null" : "可视权限不能为空",
 "common.validator.ldapAccountName.too.long" : "LDAP账号太长",
 "common.validator.org.not.null" : "部门不能为空",
 "common.validator.extraAttr.name.not.null" : "扩展属性名不能为空",
 "common.validator.extraAttr.value.not.null" : "扩展属性值不能为空",

"common.validator.extraAttr.not.exist" : "扩展属性不存在",
 "common.validator.phoneNo.not.null" : "mobile不能为空",
 "common.validator.phoneNo.exist" : "手机号已被绑定",
 "common.validator.mobile.wrongCodeNumber" : "验证码输入错误",
 "common.validator.mobile.codeNumberNotNull" : "验证码不为空",
 "common.validator.mobile.sendMessageFail" : "信息发送失败",
 "common.validator.has.bind.phone" : "已经绑定手机号",
 "common.validator.password.wrong" : "密码错误",
 "common.validator.scope.not.null" : "scope不能为空",
 "common.validator.bind.phoneNo.not.null" : "绑定手机号不能为空",
 "common.validator.phone.not.bind" : "还未绑定手机号",
 "common.validator.phone.wrong" : "手机号错误",
 "common.validator.limit.send.code" : "短信发送过于频繁, 请1分钟后再试",
 "enterprise.validator.number.invalid" : "无效的企业号",
 "enterprise.validator.id.not.null" : "企业ID不能为空",
 "enterprise.validator.status.not.null" : "状态不能为空",
 "enterprise.validator.number.not.null" : "企业号不能为空",
 "enterprise.validator.enterprise.not.exist" : "企业不存在",
 "enterprise.validator.query.condition.not.null" : "查询条件不能为空",
 "enterprise.validator.account.id.not.null" : "企业管理员ID不能为空",
 "enterprise.validator.number.exist" : "企业号重复",
 "enterprise.validator.reason.not.null" : "撤销原因不能为空",
 "enterprise.validator.company.not.null" : "公司名称不能为空",
 "enterprise.validator.company.invalid" : "公司名称包含无效的字符",
 "enterprise.validator.company.too.long" : "公司名称过长",
 "enterprise.validator.number.can.not.change" : "有员工信息不能修改企业号",
 "enterprise.validator.email.can.not.change" : "有员工信息不能修改企业注册邮箱",
 "enterprise.validator.company.can.not.revoke" : "系统管理员所在企业不能撤销",
 "enterprise.validator.company.not.active" : "帐号未激活",
 "enterprise.validator.active.code.invalid" : "激活码无效",
 "enterprise.validator.type.not.null" : "企业类型不能为空",
 "common.validator.activated.already" : "帐号已激活",
 "common.validator.enterprise.frozen" : "企业已经被冻结",
 "common.validator.enterprise.number.not.exist" : "企业号不存在",
 "common.validator.enterprise.reseller.id.not.null" : "代理商id不能为空",
 "common.validator.enterprise.phone.exist" : "改该手机号已经被绑定",
 "enterprise.accredit.number.not.null" : "代理商企业号不能为空",
 "enterprise.accredit.has.reseller" : "企业已有代理商",
 "enterprise.validator.company.revoked" : "企业已经被撤销",
 "enterprise.validator.company.notAccredit" : "企业未授权",
 "manager.account.validator.name.exist" : "用户名称已经存在",
 "manager.account.validator.username.exist" : "用户邮箱已经存在",
 "manager.account.validator.username.invalid" : "用户名不合法",
 "manager.account.validator.oldPassword.not.null" : "旧密码不能为空",
 "manager.account.validator.newPassword.not.null" : "新密码不能为空",
 "manager.account.validator.scope.not.null" : "帐号范围不能为空",
 "manager.account.validator.type.not.null" : "帐号类型不能为空",
 "manager.account.validator.oldpassword.error" : "旧密码错误",
 "manager.account.validator.default.manager.not.found" : "未找到默认管理员",
 "manager.account.validator.account.not.found" : "未找到账号",
 "manager.account.validator.count.exceed" : "数量超过",
 "org.parent.id.not.null" : "父节点ID不能为空",
 "org.target.id.not.null" : "目标节点ID不能为空",

"org.edit.name.duplicate" : "有同名节点已存在",
 "org.parent.can.not.move.to.child" : "不能移动到子节点下",
 "org.parent.can.not.delete.because.of.has.child.nodes" : "有用户时不能删除组织节点",
 "org.name.length.invalid" : "部门名称长度不合法",
 "org.not.exist" : "部门不存在",
 "org.index.not.null" : "index不能为空",
 "org.type.not.null" : "组织类型不能为空",
 "org.root.not.exist" : "数据异常, 企业根节点不存在",
 "org.staff.exist" : "目标部门下已存在该用户",
 "org.type.invalid" : "无效类型",
 "org.root.cannot.edit" : "根节点不可编辑",
 "org.root.cannot.delete" : "根节点不可删除",
 "login.auth.error.username.password" : "用户名或密码错",
 "login.auth.username.not.exist" : "账号不存在",
 "staff.validator.principle.invalid" : "帐号身份不合法",
 "staff.validator.principle.not.null" : "帐号身份不能为空",
 "staff.validator.type.not.null" : "帐号类型不能为空",
 "staff.validator.encrypt.type.not.null" : "加密类型不能为空",
 "staff.validator.account.not.found" : "没有找到用户帐号",
 "staff.validator.account.already.exist" : "分机号已存在",
 "staff.validator.old.password.not.null" : "旧密码不能为空",
 "staff.validator.new.password.not.null" : "新密码不能为空",
 "staff.validator.password.not.correct" : "密码不正确",
 "staff.validator.pin.already.exist" : "PIN码已存在",
 "staff.validator.pin.mobile.not.null" : "手机号不能为空",
 "staff.validator.unionAccountType.not.null" : "大账号类型不能为空",
 "staff.validator.generatePin.failed" : "生成PIN码失败",
 "staff.validator.email.not.match" : "用户账号与邮箱不匹配",
 "service.common.token.unauthorized" : "用户未登录或登录已失效, 请重新登录",
 "service.common.internal.error" : "500 服务器暂时不可用, 请稍候重试",
 "service.common.resources.not.found" : "资源未找到",
 "service.common.not.found" : "未找到该服务",
 "service.common.gateway.error" : "服务暂不可用, 请稍候重试",
 "service.common.id.not.null" : "ID不能为空",
 "service.common.type.invalid" : "类型错误",
 "service.common.concurrent.edit" : "有人正在进行操作, 请稍候再试",
 "service.common.email.invalid" : "邮箱格式错误",
 "service.common.protocol.not.match" : "参数错误, 请对照接口参数文档",
 "mail.validator.from.not.null" : "发送邮箱不能为空",
 "mail.validator.from.invalid" : "发送邮箱格式不正确",
 "mail.validator.to.not.null" : "接收邮箱不能为空",
 "mail.validator.to.invalid" : "接收邮箱格式不正确",
 "mail.validator.content.not.null" : "邮件内容不能为空",
 "mail.validator.cc.invalid" : "抄送邮箱格式不正确",
 "mail.validator.bcc.invalid" : "密送邮箱格式不正确",
 "mail.validator.max.receivers.limit" : "收件人数量超过最大限制",
 "mail.validator.send.success.cannot.cancel" : "该邮件已经发送成功不能取消或重试",
 "mail.validator.send.fail.cannot.cancel" : "该邮件发送失败不能取消",
 "mail.validator.only.fail.can.resend" : "只有发送失败的邮件才能重试",
 "mailServer.not.exist" : "邮件服务器配置不存在",
 "mailServer.no.support.config" : "不支持配置邮箱服务器",
 "license.sn.not.null" : "SN不能为空",
 "license.fileName.not.null" : "fileName不能为空",

"license.fileContent.not.null" : "fileContent不能为空",
 "license.read.certificate.fail" : "读取证书文件失败",
 "license.deviceKeyFile.not.exist" : "设备私钥文件不存在",
 "license.deviceCertFile.not.exist" : "设备证书文件不存在",
 "license.deviceCaFile.not.exist" : "设备CA证书文件不存在",
 "license.companyFile.not.exist" : "公司文件不存在",
 "license.authId.not.null" : "授权文件Id不能为空",
 "license.no.available.license" : "无可使用许可证",
 "resource.amount.out.of.range" : "数量范围不合法",
 "conference.autoInvite.disable" : "自动邀请功能未启用",
 "conference.default.profile.cannot.enable.broadcast" : "讨论模式下不允许启用广播互动功能",
 "conference.liveBroadcast.disable" : "RTMP直播功能已关闭",
 "conference.liveBroadcast.definition.invalid" : "直播清晰度无效",
 "conference.liveBroadcast.video.setting.invalid" : "直播视频设置无效",
 "conference.participant.type.invalid" : "参会者类型无效",
 "conference.participant.role.invalid" : "参会者角色无效",
 "conference.organizer.mustbe.login.staff" : "会议组织者只能是当前用户",
 "conference.organizer.must.only.one" : "会议不允许多个组织者",
 "conference.no.permission.view.recording" : "非会议参会者不能查看录制文件",
 "conference.organizer.must.only.one" : "会议不允许多个组织者",
 "conference.duration.gt.interval" : "会议的持续时间必须小于会议的时间间隔",
 "category.root.can.not.edit" : "根节点不允许操作",

"control.fs.param.userAgent" : "user agent被禁止",
 "control.fs.device.memory" : "申请内存失败",
 "control.fs.param.contact" : " 没有contact",
 "control.fs.param.header" : "sip头域错误",
 "control.fs.param.req.line" : "sip请求行错误",
 "control.fs.device.no.license" : "license不可用",
 "control.fs.device.api" : "执行API出错",
 "control.fs.device.dbc" : "操作数据库失败",
 "control.fs.device.not.support" : "功能未实现",
 "control.fs.device.ldap" : "ldap打开失败",
 "control.fs.param.account" : "账号权限禁止",
 "control.fs.param.password" : "密码错误",
 "control.fs.param.phone.mismatch" : "用户无权限使用该号码",
 "control.fs.param.no.user" : "用户不存在",
 "control.fs.action.retry.max" : "短时间内重试次数过多",
 "control.fs.device.license.expire" : "用户license过期",
 "control.fs.device.acl.reject" : "被ACL拒绝",
 "control.fs.param.auth.header" : "鉴权头域有问题",
 "control.fs.param.auth.stake" : "鉴权信息过于陈旧",
 "control.fs.param.country" : "业务账号没有国别属性",
 "control.fs.server.auth.info" : "服务器缺少鉴权信息, 比如账号存在, 但没有密码",
 "control.fs.server.algorithm" : "鉴权算法当前不支持",
 "control.fs.device.auth.max" : "超过密码认证错误次数",
 "control.fs.server.blacklist" : "鉴权失败, ip在黑名单中",
 "control.fs.registe.success" : "注册成功",
 "control.fs.registe.failed" : "注销成功",
 "control.fs.param.need.phone" : "要求用户输入号码",
 "control.fs.param.need.gruu" : "需要客户端支持GRU",
 "control.fs.registe.limit" : "超过每个号码限制的注册数",

"control.fs.param.phone.not.registe" : "被叫用户没有注册",

"control.fs.server.media.neg": "媒体协商失败",
 "control.fs.server.ignore.call": "忽略一路来电",
 "control.fs.server.force.reject": "强制拒绝一路来电",
 "control.fs.server.call.forbidden": "呼叫被禁止",
 "control.fs.server.unalloc.number": "号码不存在",
 "control.fs.server.timeout": "呼叫超时",
 "control.fs.server.call.dnd": "DND",
 "control.fs.server.answer.elsewhere": "呼叫已在其它地方被接起",
 "control.fs.server.acl.reject": "被ACL拒绝",
 "control.fs.server.patch.sdp": "生成新的SDP失败",
 "control.fs.server.no.dialplan": "已执行完所有的dialplan, 挂断",
 "control.fs.server.req.timeout": "UDP, 发出去的invite没有响应, 协议栈回复408",
 "control.fs.server.caller.cancel": "主叫cancel",
 "control.fs.server.all.callee.handup": "所有被挂断",
 "control.fs.server.forward": "FWD",
 "control.fs.server.no.suitable.dialplan": "没有合适的dialplan",
 "control.fs.server.pstn.gateway": "呼出到PSTN网关失败",
 "control.fs.server.keeplive": "通话keepalive失败",
 "control.fs.server.forward.to.conf": "通话forward到会议中",
 "control.fs.server.transfer": "通话transfer到会议中",
 "control.fs.server.forward.fail": "网关禁止被远端FWD",
 "control.fs.server.refer.fail": "网关禁止被远端REFER",
 "control.fs.server.whitelist.reject": "网关白名单限制",
 "control.fs.server.blacklist.reject": "网关黑名单限制",
 "control.fs.server.ringgroup.not.exist": "振铃组不存在",
 "control.fs.server.ringgroup.no.member": "振铃组没有成员",
 "control.fs.server.apns.error": "APNs服务推送失败",
 "control.fs.server.account.deleted": "账号被删除",
 "control.fs.server.refer.phone": "通话从IVR REFER到分机",
 "control.fs.server.reinvite.frequent": "重协商频繁",
 "control.fs.server.call.replace": "通话被替换",
 "control.fs.server.call.busy": "正在通话中",
 "control.fs.server.session.request.fail": "session申请失败",
 "control.fs.server.session.launch.fail": "session launch失败",
 "control.fs.server.remote.cooperation": "正在远程协作中",
 "control.fs.turn.account.alloc.fail": "申请turnserver账号失败",
 "control.fs.conf.not.exist": "会议不存在",
 "control.fs.conf.locked": "会议被锁住",
 "control.fs.conf.user.max": "会议超过最大用户数",
 "control.fs.conf.user.duplicate": "该用户已经加入会议",
 "control.fs.conf.sess.failed": "发消息给MCU失败",
 "control.fs.conf.error": "向MCU ReqSessResource, 返回失败",
 "control.fs.conf.api.invalid": "向MCU ReqSessResource, 没有返回有效的MCU地址IP",
 "control.fs.media.sdp.fail": "生成发送给MCU的SDP失败",
 "control.fs.session.start.fail": "向MCU StartSession返回失败",
 "control.fs.conf.notif.quit": "媒体超时, 收到MCU推送NotifyServerQuitCall",
 "control.fs.endpoint.add.fail": "用户endpoint加入失败",
 "control.fs.user.deleted": "用户被剔除",
 "control.fs.conf.deleted": "会议被删除",
 "control.fs.conf.uri.invalid": "会议URI不合法",
 "control.fs.session.auth.fail": "向MCU StartAuthSession返回失败",
 "control.fs.account.license.limit": "会议License并发数限制",
 "control.fs.conf.keeplive.fail": "会议保活失败",

"control.fs.conf.create.fail" : "会议创建失败",
 "control.fs.param.set.fail" : "向MCU设置会议参数失败",
 "control.fs.mcu.not.conneted" : "尚未连接上MCU",
 "control.fs.conf.num.alloc.fail" : "申请会议号失败",
 "control.fs.conf.not.start" : "会议尚未开始, 只针对预约会议",
 "control.fs.conf.had.end" : "会议已经结束, 只针对一次性预约会议",
 "control.fs.endpoint.multi" : "同一个session尝试加入多个endpoint",
 "control.fs.endpoint.duplicate" : "同一个用户(GRUU)加入重复的endpoint",
 "control.fs.param.invalid.c3p.request" : "无效C3P请求, 如缺少信息",
 "control.fs.mcu.entry.not.find" : "创建会议时没有创建相应的MCU entry",
 "control.fs.user.resource.not.find" : "用户资源不存在, 如user、endpoint、media",
 "control.fs.permission.denied" : "权限受限",
 "control.fs.param.pin.invalid" : "会议密码错误",
 "control.fs.param.entity.miss" : "呼入到focus, 没有打到当前用户的user entity",
 "control.fs.param.id.miss.info" : "通过会议id找不到相应的预约会议信息",
 "control.fs.conf.new.create.fail" : "会议新建失败",
 "control.fs.conf.run.fail" : "会议运行失败",
 "control.fs.mcu.keeplive.fail" : "会议一路通话保活失败",
 "control.fs.share.new.join" : "第二路视频辅流 发生抢占",
 "control.fs.broadcast.not.find" : "广播布局不存在",
 "control.fs.vmr.invite.fail" : "邀请终端VMR失败",
 "control.fs.broadcast.disable" : "全局互动广播开关关闭",
 "control.fs.broadcast.license.limit" : "广播license不足",
 "control.fs.blacklist.limit" : "会议黑名单",
 "control.fs.blacklist.direct.limit" : "IP直拨黑名单",
 "control.fs.invite.trans.h323" : "会议邀请SIP, 改为邀请H323成功, 原来的session挂断",
 "control.fs.user.no.share" : "辅流分享者停止辅流分享",
 "control.fs.web.api.fail" : "操作WEB接口失败",
 "control.fs.rollcall.prepare.fail" : "点名前准备失败",
 "control.fs.rollcall.pending" : "点名正在进行中",
 "control.fs.rollcall.not.start" : "点名未开始",
 "control.fs.web.resource.fail" : "向后端申请资源失败",
 "control.fs.record.no.start" : "录播未开始",
 "control.fs.rtmp.no.start" : "RTMP直播未开始",
 "control.fs.record.pending" : "录播正在处理中",
 "control.fs.rtmp.multi.not.support" : "暂不支持开启多个RTMP直播",
 "control.fs.user.delete.by.admin" : "用户被管理员剔除",
 "control.fs.conf.delete.by.admin" : "会议被管理员删除",
 "control.fs.conf.coopshare.stop" : "白板发起者离开会议",
 "control.fs.conf.interactive.port.limit" : "会议互动端口上限",
 "control.fs.conf.broadcast.port.limit" : "会议广播端口上限",
 "control.fs.conf.forbidden.ipcall" : "禁止ip直拨入会",
 "control.fs.conf.forbidden.ipcall" : "禁止ip直拨入会",
 "control.fs.conf.forbidden.webrtc" : "禁止webrtc入会",
 "control.fs.conf.rollcall.finish" : "点名已经结束",
 "control.fs.conf.forbidden.h323" : "禁止H323入会",
 "control.fs.conf.broadcast.layout.fail" : "广播布局申请失败",
 "control.fs.conf.no.media.user" : "会议中没有参会成员, 无媒体流成员",
 "control.fs.conf.forbidden.sip.h323" : "企业未开通H.323/SIP终端接入服务",
 "control.fs.conf.port.limit" : "H.323/SIP终端接入端口不足",
 "control.fs.conf.telepresence.limit.audio" : "网真会议限制纯音频呼入",
 "control.fs.conf.func.already.execute" : "相关功能已经开始",
 "control.fs.conf.func.already.finish" : "相关功能已经结束",

"control.fs.sip.stack.transport.error" : "sofia协议栈传输层错误",
 "control.fs.dns.error" : "sofia协议栈DNS解析错误",
 "control.proxy.memory.error" : "私有内存失败",
 "control.proxy.avp.error" : "保存AVP失败",
 "control.proxy.no.implement" : "没有实现",
 "control.proxy.param.password" : "密码错误",
 "control.proxy.param.accout" : "用户不存在",
 "control.proxy.param.nonce" : "非法鉴权随机数",
 "control.proxy.param.nonce.length" : "鉴权随机数太短",
 "control.proxy.param.nonce.mismatch" : "鉴权随机数参数长度不一致",
 "control.proxy.param.nonce.extra.fail" : "鉴权随机数额外检查失败",
 "control.proxy.param.nonce.stale" : "随机数过期",
 "control.proxy.param.nonce.invalid" : "invalid nc",
 "control.proxy.param.nonce.reused" : "nc重复使用",
 "control.proxy.credentials.null" : "鉴权域不存在",
 "control.proxy.credentials.no.find" : "查找鉴权头域失败",
 "control.proxy.credentials.header" : "不支持的鉴权头域",
 "control.proxy.authenticated" : "鉴权成功",
 "control.proxy.credentials.digest" : "检查digest鉴权信息失败",
 "control.proxy.nonce.null" : "没有nonce",
 "control.proxy.account.fail" : "获取账号失败",
 "control.proxy.a1hash.null" : "账号没有A_HASH",
 "control.proxy.response.length" : "RESPONSE长度不对",
 "control.proxy.user.mismatch" : "该账号没有使用该号码权限",
 "control.proxy.api.param.cellphone" : "手机号无效",
 "control.proxy.api.param.cp.hash" : "账号无CP_HASH",
 "control.proxy.api.param.sms.code" : "无效验证码",
 "control.proxy.api.param.sms.interval" : "短信码获取时间间隔太短",
 "control.proxy.api.param.cnonce" : "没有CNONCE",
 "control.proxy.api.param.qop" : "无效QOP",
 "control.proxy.api.param.uid" : "没有codeuid",
 "control.proxy.param.null" : "非法路由参数",
 "control.proxy.call.rule.null" : "呼叫路由不存在",
 "control.proxy.server.unavailable" : "没有可用服务器",
 "control.proxy.record.incoming" : "设置接收端Record Route失败",
 "control.proxy.record.outgoing" : "设置发送端Record Route失败",
 "control.proxy.user.route.fail" : "客户配置路由失败",
 "control.proxy.account.registe.limit" : "该账号注册终端超过限制",
 "control.proxy.callid.null" : "callid不存在",

 "control.mcu.general.error" : "通用错误",
 "control.mcu.internal.error" : "MCU内部错误",
 "control.mcu.callid.no.exist" : "通话CallId不存在",
 "control.mcu.parse.error" : "解析错误",
 "control.mcu.param.version" : "版本错误",
 "control.mcu.param.method" : "方法错误",
 "control.mcu.param" : "参数错误",
 "control.mcu.param.proto" : "协议内部错误",
 "control.mcu.timeout" : "请求超时",
 "control.mcu.srv.id.not.registe" : "SrvId未注册",
 "control.mcu.conf.not.exist" : "会议号不存在",
 "control.mcu.conf.id.collision" : "会议号冲突",

 "control.mcu.mps.unavailable" : "没有可用MPS",

"control.mcu.resource": "没有可用资源",
 "control.mcu.process.fail": "正在容灾处理",
 "control.mcu.port.unavailable": "没有可用端口",
 "control.mcu.resource.had.alloc": "重复申请资源",
 "control.mcu.request.type": "申请资源类型错误",
 "control.mcu.mps.timeout": "MPS资源申请超时",
 "control.mcu.mps.message": "发送消息给MPS失败",
 "control.mcu.mps.starting": "MPS正在准备过程中",
 "control.mcu.ice.server": "TurnServer错误",
 "control.mcu.ice.cands.collect": "ICE候选地址收集失败",
 "control.mcu.ice.connect": "ICE连接性检查失败",
 "control.mcu.dtls.handshake": "DTLS握手失败",
 "control.mcu.ice.no.candidated": "ICE没有可用候选地址",
 "control.mcu.call.resource": "通话资源未申请",
 "control.mcu.channel.open.fail": "打开媒体通道失败",
 "control.mcu.port.bind.fail": "端口绑定失败",
 "control.mcu.resource.loaded": "资源超分配导致打开失败",
 "control.mcu.media.data": "数据接收异常",
 "control.mcu.channel.auth": "验证通道打开失败",
 "control.mcu.dbc.connect": "数据库连接失败",
 "control.mcu.dbc.operation": "数据库操作失败",
 "control.mcu.dbc.timeout": "数据库操作超时",

 "recording.startTime.or.endTime.invalid": "开始时间和结束时间必须同时为空，或同时不为空",
 "recording.startTime.should.lt.endTime": "开始时间应小于结束时间",
 "recording.play.concurrent.beyond.permitted": "点播并发超出限制",
 "recording.transcode.file.not.found": "未找到转码文件",

 "callType.not.null": "呼叫类型不能为空",
 "callType.is.error": "呼叫类型错误",
 "confUid.not.null": "会议ID不能为空",
 "beginTime.not.null": "开始时间不为空",
 "endTime.not.null": "结束时间不为空",
 "callRecord.not.exist": "通话记录不存在",
 "confUid.has.no.participant": "该会议没有参会者",
 "callRecord.download.size.is.over.excel.max.size": "导出数量超过限制",
 "callRecord.download.subtitle.failed": "获取字幕文件失败",
 "callRecord.package.failed": "打包失败",

 "sub.manager.not.exist": "子管理员不存在",
 "org.id.is.exist": "id已存在",
 "org.id.length.invalid": "id长度无效",

 "common.validator.authCode.too.long": "鉴权码过长",
 "login.auth.invalid.type": "无效的类型",
 "login.auth.invalid.authCode": "无效的鉴权码",

 "startValue.digit.notEq.EndValue": "起始号码位数不等于结束号码",
 "startValue.moreThan.endValue": "起始号码大于结束号码",
 "value.is.conflict.with.other": "此号码段与已存在号码段的矛盾",
 "numberResource.value.not.exist": "号码段不存在",
 "numberResource.type.can.not.null": "号码段类型不能为空",

 "numberResource.startValue.can.not.null": "号码段起始值不能为空",

"numberResource.endValue.can.not.null" : "号码段结束值不能为空",
"numberResourceId.can.not.null" : "号码段ID不能为空",
"numberResource.value.digit.too.many" : "号码值位数太多",
"numberResource.type.invalid" : "号码段类型无效",
"numberResource.conference.cannot.startWith.zero" : "会议号码不能以0开头",
"numberResource.value.invalid" : "号码值无效",