

Huawei Cloud Meeting

Server API Reference

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1 Overview

This document describes the RESTful application programming interfaces (APIs) provided by Huawei Cloud Meeting. Developers can use these APIs to integrate the audio and video meeting functions of Huawei Cloud Meeting into their service systems.

A RESTful API request URI consists of the following parts:

{URI-scheme}://{Endpoint}/{resource-path}?{query-string}

Table 1-1 Parameters in a URI

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS .
Endpoint	api-intl.meeting.huaweicloud.com for the International site.
resource-path	Path where the resource requested by the API is located.
query-string	(Optional) Query parameter.

API Categories

Table 1-2 API categories

API Category	Description
Common Authentication and Login	Obtain and update a token, log out of the server, and configure SSO authentication.
Meeting Management	Schedule a meeting, edit or cancel a scheduled meeting, and query the meeting list and meeting details. Create, modify, or cancel a recurring meeting series and modify or cancel a recurring meeting.

API Category	Description
Meeting Control	Control a meeting, such as adding and muting participants, setting continuous presence, and applying for or relinquishing the host role, giving the floor, broadcast, and recording.
Meeting Event Push	<ul style="list-style-type: none"> • Push information about a specific meeting, including the basic meeting information, meeting statuses, online participants, speaker statuses, media quality statuses, and live captions, via WebSocket. • Push enterprise-level meeting information, including meeting start and end statuses, via WebSocket.
Enterprise Management	Manage your enterprise, including querying and modifying enterprise registration details, querying enterprise resources and service permissions as an enterprise administrator, and creating, deleting, querying, modifying, and searching for enterprises as an SP administrator.
Department Management	Add, modify, and delete departments in your enterprise, and query department details.
User Management	Manage user accounts in your enterprise, including adding, modifying, and deleting users, querying user details, and changing users' mobile numbers or email addresses.
Enterprise Administrator Management	Manage enterprise administrators, including adding, deleting, and querying enterprise administrators.
Hard Terminal Management	Manage hard terminals, including adding, modifying, deleting, and querying hard terminals, and resetting activation codes.
Cloud Meeting Room Management	Manage cloud meeting rooms, including deleting, allocating, and reclaiming cloud meeting rooms, and querying and modifying cloud meeting rooms associated with users.
User Password Management	Manage passwords of enterprise users, including changing and resetting passwords as enterprise members, and resetting passwords of enterprise members as enterprise administrators.
Corporate Directory Query	Query the corporate directory.
Enterprise Resource Management	Manage enterprise resources, including allocating, deleting, modifying, and querying enterprise resources, and querying operation records of enterprise resources.
Meeting Minutes	Manage meeting minutes generated on IdeaHubs and other whiteboards, including opening the file list, saving the meeting minutes to eMeetings, querying the list, and querying details.

API Category	Description
Bulletin Board Management	<ul style="list-style-type: none">• Publication management Manage bulletin board publications, including adding, deleting, and modifying bulletin board publications, querying details of a bulletin board publication, and querying the list of bulletin board publications.• Program management Manage bulletin board programs, including adding, deleting, and modifying bulletin board programs, querying details of a bulletin board program, and querying the list of bulletin board programs.• Material management Manage bulletin board materials, including adding, deleting, and modifying bulletin board materials, and querying the list of bulletin board program materials.

2 Change History

Table 2-1 Change history

Released On	Version	Change Description
2022-11-11	28	Added the APIs for Applying to Be a Co-Host , Raising Hands , Admitting Waiting Room Members to a Meeting , Moving a Participant to the Waiting Room , Allowing Local Recording , Querying a Continuous Presence Layout , Saving a Continuous Presence Layout , and Deleting a Continuous Presence Layout .
2022-03-30	27	Added the API for Activating a Meeting .
2021-09-26	26	Added the APIs for configuring SSO login and inviting a participant to enable/disable the camera .
2021-09-10	25	Added recurring meeting APIs, including Creating a Recurring Meeting Series , Canceling a Recurring Meeting Series , Canceling a Recurring Meeting , Modifying a Recurring Meeting Series , and Modifying a Recurring Meeting . Added the API for Pushing Invitation Results .
2021-08-28	24	Added the API for pushing enterprise-level meeting events .
2021-08-06	22	Change the error code 500 to 403 when parameters of the following APIs are incorrectly configured: <ul style="list-style-type: none">• /v1/mmc/control/conferences/record• /v1/mmc/control/conferences/participants/mute• /v1/mmc/control/conferences/participants/rollCall• /v1/mmc/control/conferences/participants/broadcast• /v1/mmc/control/conferences/participants/role

Released On	Version	Change Description
2021-06-10	21	Added the following topics: Listing Enterprise Resources by Page : An enterprise administrator can query the list of enterprise resource orders based on search criteria.
2021-05-11	20	Added the following topics: Querying Download Links of Recording Files : An administrator can query the download link of a meeting recording file.
2021-02-09	19	Added the following topic: Meeting Event Push : A third-party application can subscribe to the information about a meeting through the WebSocket API.
2020-09-22	18	Added the following topic: Authenticating an App ID
2020-09-01	17	Added the following APIs: Meeting Minutes : These APIs are used to manage meeting minutes, including opening the list of meeting minutes, saving meeting minutes to eMeetings, querying the list of meeting minutes, and querying details about meeting minutes.
2020-07-21	16	Added the following topics: Bulletin Board Material Management Bulletin Board Program Management Bulletin Board Publication Management
2020-05-13	15	Added the following topics: Creating an Enterprise as an SP Administrator Deleting an Enterprise as an SP Administrator Modifying an Enterprise as an SP Administrator Querying Enterprises in Pages as an SP Administrator Enterprise Resource Management
2020-04-15	14	Added the following topics: Focusing a Site and Unlocking the Video Source of a Participant .
2020-04-14	13	Moved topics Querying Recording File Details , Deleting Recording Files in Batches , Viewing Historical Meeting Details , Querying Meeting Control Records of a Historical Meeting , Querying the Participant Records of a Historical Meeting , and Authenticating an Anonymous User from Meeting Control to Meeting Management .

Released On	Version	Change Description
2020-04-09	12	<p>Modified the following content:</p> <p>Added the scenario description in Common Authentication and Login.</p> <p>Added the scenario description in WeLink Proxy Login and Authentication.</p> <p>Added the "APIs" topic and moved all APIs the added "APIs" topic in Enterprise Management, Department Management, User Management, Enterprise Administrator Management, User Password Management, and Corporate Directory Query.</p> <p>Added the scenario description and development guide for each API category in the following topics:</p> <ul style="list-style-type: none"> • Managing Enterprise Registration Details, Resources, and Service Permissions • Managing Departments • Managing Personal Details • Managing Enterprise Users • Managing Enterprise Administrators • Changing a Personal Password • Resetting a Personal Password • Resetting the Password for an Enterprise User • Querying the Corporate Directory
2020-02-29	11	<p>Added the following topics:</p> <p>WeLink Proxy Login and Authentication Token Verification</p> <p>WeLink Proxy Authentication</p> <p>Modified the following topic:</p> <p>Querying the Corporate Directory</p> <p>Deleted the following API:</p> <p>API for authenticating a third-party application</p>
2020-02-12	10	<p>Added the following topic:</p> <p>Cloud Meeting Room Management: These APIs are used to manage cloud meeting rooms, including querying, deleting, allocating, and reclaiming cloud meeting rooms, as well as querying and modifying cloud meeting rooms associated with users.</p>

Released On	Version	Change Description
2019-12-24	09	<p>Modified the following content:</p> <p>Optimized URLs of all APIs and request methods of some APIs.</p> <p>Changed the authentication header field of all APIs, except the API for performing authentication, from Authorization to X-Access-Token, which does not need to be transcoded using Base64.</p> <p>Changed the status code returned to indicate a success to 200, and deleted the returnCode and returnMessage fields from the response message.</p> <p>Deleted the 200 OK message body from the following APIs:</p> <ul style="list-style-type: none"> • Logging Out • Modifying Enterprise Registration Details as an Enterprise Administrator • Modifying a Department • Deleting a Department • Modifying a User • Deleting Users in Batches • Modifying the User Status in Batches • Modifying Personal Details as a User • Obtaining a Verification Code • Verifying a Verification Code • Changing the Mobile Number or Email Address • Adding an Enterprise Administrator • Deleting Enterprise Administrators in Batches • Modifying a Terminal • Deleting Terminals in Batches • Modifying the Terminal Status in Batches • Resetting an Activation Code • Changing a Password • Resetting the Password for an Enterprise User • Resetting a User Password • Canceling a Scheduled Meeting • Inviting Participants • Disconnecting Participants • Removing Participants • Applying or Relinquishing the Host Role • Muting or Unmuting Participants • Muting or Unmuting All Participants

Released On	Version	Change Description
		<ul style="list-style-type: none"> • Raising or Lowering Hands • Locking or Unlocking a Meeting • Extending a Meeting • Ending a Meeting • Setting Continuous Presence • Switching the Video Display Mode • Viewing Participants as the Host • Starting and Stopping Recording a Meeting • Starting or Stopping Live Broadcasting a Meeting • Renaming a Participant • Giving Floor to a Participant • Broadcasting a Participant • Deleting Recording Files in Batches <p>Changed the position of request parameters to URL and changed the pageIndex, pageSize, and totalCount response parameters to offset, limit, and count respectively for the following APIs:</p> <ul style="list-style-type: none"> • Querying Users in Pages • Querying Enterprise Administrators in Pages • Querying Terminals in Pages • Querying the Corporate Directory • Querying the Meeting List • Querying Meeting Details • Querying the Ongoing Meeting List • Querying Ongoing Meeting Details • Querying the Recording File List • Querying the Historical Meeting List • Viewing Historical Meeting Details • Querying Meeting Control Records of a Historical Meeting • Querying the Participant Records of a Historical Meeting <p>Added the autoUserCreate parameter in ModCorpBasicInfoDTO.</p> <p>Added the enableHybridCloud parameter in QueryCorpResDetailResultDTO.</p> <p>Added the inPermission, outPermission, and designatedOutDeptCodes parameters in DeptDTO.</p>

Released On	Version	Change Description
		<p>Added the englishName, signature, title, and desc parameters in MemberDTO.</p> <p>Added the inPermission, outPermission, and designatedOutDeptCodes parameters in QueryDeptResultDTO.</p> <p>Changed the enumerated values of the searchScope parameter in Querying the Corporate Directory.</p> <p>Deleted the language and checkType parameters from VerifyCodeSendDTOV1.</p> <p>Deleted the language parameter from ResetPwdReqDTOV1.</p> <p>Changed the position of parameters in the request URL to query for the following APIs:</p> <ul style="list-style-type: none"> • Canceling a Scheduled Meeting • Modifying a Scheduled Meeting • Querying Meeting Details • Querying Ongoing Meeting Details • Obtaining a Meeting Control Token • Querying Meeting Details in Real Time • Inviting Participants • Disconnecting Participants • Removing Participants • Applying or Relinquishing the Host Role • Muting or Unmuting Participants • Muting or Unmuting All Participants • Raising or Lowering Hands • Locking or Unlocking a Meeting • Extending a Meeting • Ending a Meeting • Setting Continuous Presence • Switching the Video Display Mode • Viewing Participants as the Host • Starting and Stopping Recording a Meeting • Starting or Stopping Live Broadcasting a Meeting • Renaming a Participant • Giving Floor to a Participant • Broadcasting a Participant • Querying Recording File Details • Deleting Recording Files in Batches

Released On	Version	Change Description
		<ul style="list-style-type: none"> • Viewing Historical Meeting Details • Querying Meeting Control Records of a Historical Meeting • Querying the Participant Records of a Historical Meeting • Authenticating an Anonymous User <p>Added the deptUUID, supportSVC, and isTruckNum parameters in Attendee.</p> <p>Added the videoConfMode, inviteMode, prolongLength, and isAutoMute parameters in ConfConfigInfo.</p> <p>Added the X-Authorization-Type parameter to the request header field for the following APIs:</p> <ul style="list-style-type: none"> • Canceling a Scheduled Meeting • Modifying a Scheduled Meeting • Querying the Meeting List • Querying Meeting Details • Querying the Ongoing Meeting List • Querying Ongoing Meeting Details • Querying the Recording File List • Querying Recording File Details • Deleting Recording Files in Batches • Querying the Historical Meeting List • Viewing Historical Meeting Details • Querying Meeting Control Records of a Historical Meeting • Querying the Participant Records of a Historical Meeting <p>Changed the request method from DELETE to POST in the API for Disconnecting Participants, and added the body parameters.</p> <p>Changed the request method from DELETE to POST in the API for Removing Participants, and added the body parameters.</p> <p>Added the allowUnmuteByOneself parameter to the body data structure for the APIs Muting or Unmuting Participants and Muting or Unmuting All Participants.</p> <p>Deleted the following topics: "Downloading Resources", "Service Demo", "Installing and Configuring the Demo Environment", "Occupying the Java Startup Port", "Running the cnpm install Command to Download Software Packages", and "Deleting Recording Files"</p>

Released On	Version	Change Description
2019-09-30	08	<p>Modified the following content:</p> <p>Added default values and format requirements and more detailed parameter value description for all APIs.</p>
2019-08-30	07	<p>Added the following topic:</p> <p>Querying the Terminal Status</p> <p>Modified the following content:</p> <p>Added RealTimeConfInfo data structure in Querying Meeting Details in Real Time.</p> <p>Added the autoUserCreate parameter in Querying Enterprise Registration Details as an Enterprise Administrator.</p> <p>Added the englishName, function, sortLevel, hidePhone parameters to the request body data structure and the englishName, title, desc, and function parameters to the QueryUserResultDTO data structure in Adding a User.</p> <p>Added the verificationCode parameter in Obtaining a Verification Code.</p> <p>Added the prjCodeMode parameter in Adding a Terminal.</p> <p>Added the prjCodeMode parameter in Modifying a Terminal.</p> <p>Added the prjCodeMode parameter in Querying Terminal Details.</p> <p>Added the statusCode, englishName, vmrId, signature, title, and description parameters to the UserDTO data structure in Querying the Corporate Directory.</p> <p>Added the menuTemplateId parameter in Adding an Enterprise Administrator.</p> <p>Added the menuTemplateId parameter in the API for modifying an enterprise administrator.</p> <p>Added the sortField and isAsc request parameters in Querying Enterprise Administrators in Pages.</p> <p>Added value 18 (workplace mobile) to the request parameter clientType in Verifying a Puzzle Piece CAPTCHA.</p>

Released On	Version	Change Description
2019-07-29	06	<p>Added the following APIs:</p> <ul style="list-style-type: none"> Querying the Ongoing Meeting List Querying Ongoing Meeting Details Raising or Lowering Hands Extending a Meeting Viewing Participants as the Host Starting or Stopping Live Broadcasting a Meeting
2019-06-29	05	<p>Added the following API:</p> <ul style="list-style-type: none"> Querying Meeting Details in Real Time <p>Modified the following content:</p> <p>Added the notification of registering a Huawei Cloud account first in "Preparing Development Environment."</p>
2019-06-03	04	<p>Added the following APIs:</p> <ul style="list-style-type: none"> Resetting a Forgotten Password Resetting the Password for an Enterprise User
2019-05-09	03	<p>Added the following topics:</p> <ul style="list-style-type: none"> • Service Demo • FAQs <p>Added the following APIs:</p> <ul style="list-style-type: none"> • Corporate Directory Query <p>Deleted the following topic:</p> <ul style="list-style-type: none"> • Getting Started
2019-04-30	02	<p>Added the following APIs:</p> <ul style="list-style-type: none"> • Department Management • User Management • Enterprise Administrator Management • Hard Terminal Management <p>Added the scenario description and development guide for the following scenarios:</p> <ul style="list-style-type: none"> • Login Authentication • Quick Meeting Joining • Basic Meeting Control • Video Meeting Control • Meeting Recording
2019-03-31	01	<p>This issue is the first official release.</p>

3 Login Authentication

3.1 Examples

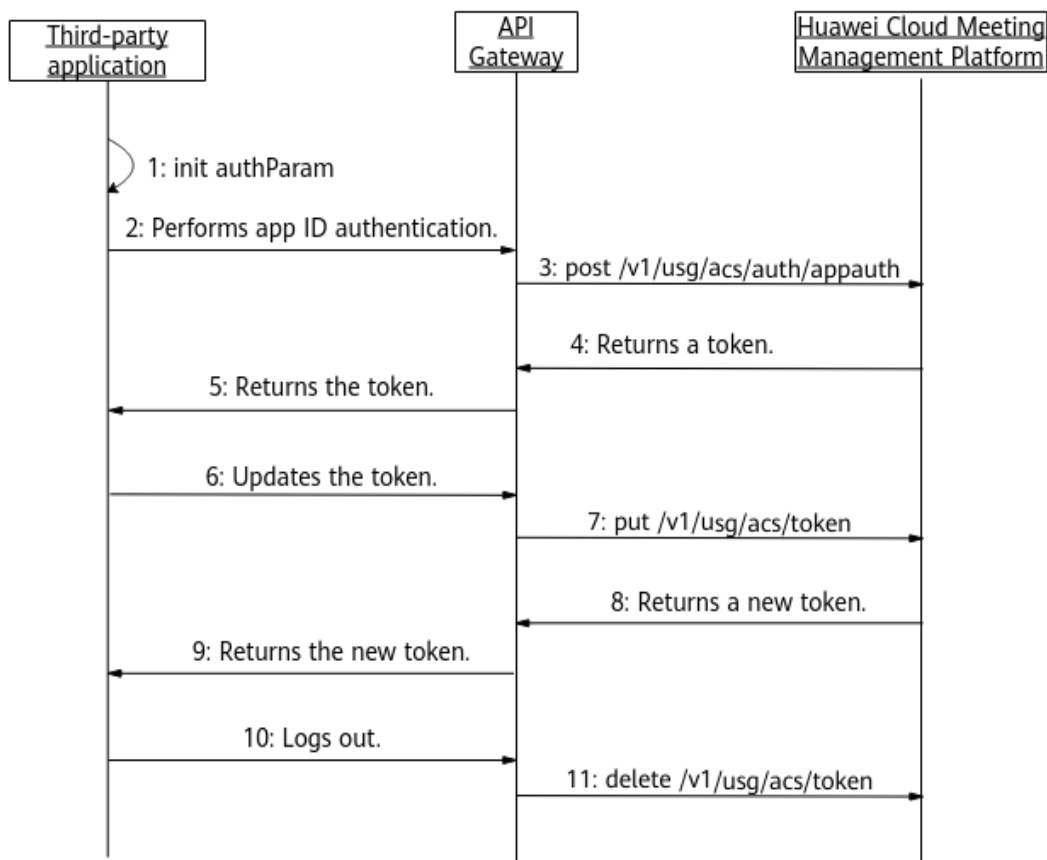
3.1.1 Example 1: App ID Authentication

Scenarios

Before using REST APIs provided by Huawei Cloud Meeting, you must log in to the server. If you do not need to use a service, log out of the server to ensure the security of service APIs.

Service Process

Figure 3-1 Common login and authentication process



1. Initialize parameters, including app ID, user ID, and **Authorization**. For details about how to apply for an app ID and generate a signature, see [Introduction to App ID Authentication](#).
2. The third-party application sends an authentication request carrying initialized parameters to API Gateway.
3. After receiving the request, API Gateway forwards the request to Huawei Cloud Meeting Management Platform.
4. After the authentication is successful, Huawei Cloud Meeting Management Platform returns a token to API Gateway.
5. API Gateway returns the received token to the third-party application. The token is valid for 12 to 24 hours.
6. Before the token expires, the third-party application sends a token update request to API Gateway.
7. API Gateway sends a token update request to Huawei Cloud Meeting Management Platform.
8. Huawei Cloud Meeting Management Platform returns a new token to API Gateway.
9. API Gateway returns the new token to the third-party application.
10. If you do not need to call APIs later, call the logout API to invalidate the token.

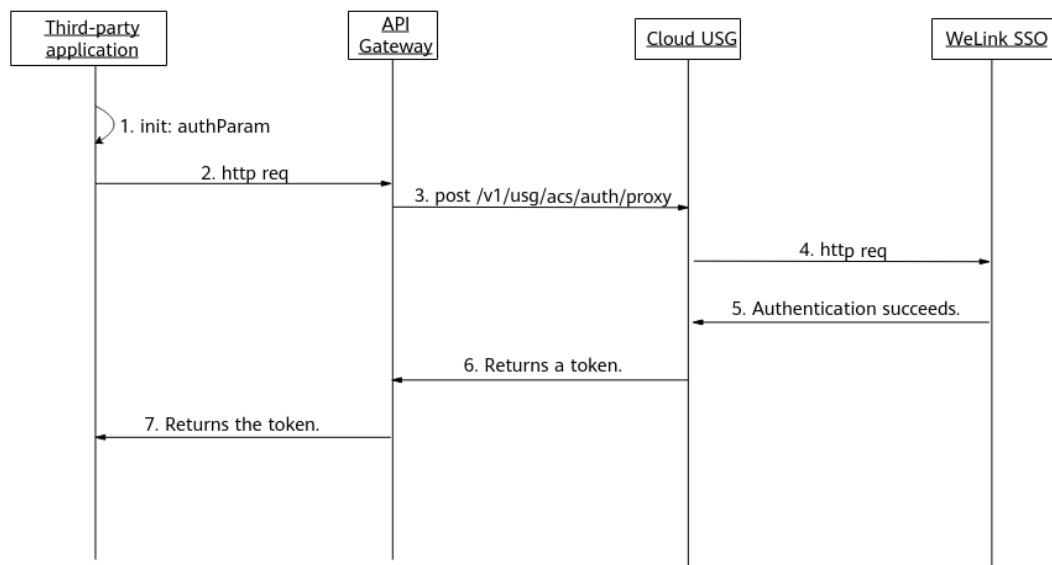
3.1.2 Example 2: WeLink Proxy Login and Authentication

Scenarios

A third-party application user can log in to Huawei Cloud Meeting Management Platform using a WeLink account and password and obtain a token after successful login.

Service Process

Figure 3-2 WeLink proxy login process



Preparations: You have obtained a WeLink account and password.

You can register a free trial account, or create an account as the enterprise administrator after purchasing the WeLink service.

1. The third-party application initializes parameters, such as the account and password.
2. The third-party application sends an authentication request carrying initialized parameters to API Gateway.
3. API Gateway sends an authentication request to the Cloud USG.
4. The Cloud USG sends a proxy authentication request to the WeLink SSO.
5. The WeLink SSO returns a message indicating that the authentication is successful.
6. After the authentication is successful, the Cloud USG generates a token and returns it to API Gateway.
7. API Gateway returns the received token to the third-party application.

3.2 APIs

3.2.1 Authenticating an App ID

Description

This API is used to authenticate an app ID. After the authentication is successful, an access token is generated. For details about app ID authentication, see [Introduction to App ID Authentication](#).

 NOTE

- When **clientType** is set to **72**, up to 64 tokens can be created for each user ID. If 64 tokens have been created using a user ID and the tokens are valid, creating a new token using the same user ID will invalidate the earliest token among the first 64 tokens.
- When **clientType** is not set to **72**, only one token can be created for each user ID.
- A token is valid for 12 to 24 hours.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-1 Prototype

Request Method	POST
Request Address	/v2/usg/acs/auth/appauth
Transport Protocol	HTTPS

Request Parameters

Table 3-2 Parameters

Parameter	Mandatory	Type	Location	Description
Authorization	Yes	String	Header	<p>Application authentication information.</p> <ul style="list-style-type: none"> Rule: HMAC-SHA256 signature=HexEncode(HMAC256((appId + ":" + userId + ":" + expireTime + ":" + nonce), appKey)),access=base64(appId) Example: HMAC-SHA256 signature=07f31aa9eafb06652c6899248b145c1a3264242e2ccf4c81b1b6eb99bb5c,access=ZmRiOGU0Njk5NTg2NDU4YmJkMTBjODM0ODcyZGNjNjI= <p>NOTE If userId is carried, the request body must carry the same userId. (Mandatory) The value of access in the authentication header field is the Base64-encoded ID of the application.</p>
X-Token-Type	Yes	String	Header	<p>Token type. The value is LongTicket.</p>
Content-Type	Yes	String	Header	<p>Media format of the body.</p> <ul style="list-style-type: none"> Example: application/json; charset=UTF-8
X-Request-ID	No	String	Header	<p>Request ID, which is used for fault tracing and locating. You are advised to use a universally unique identifier (UUID). If this parameter is not carried, a request ID is automatically generated.</p>

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
appId	Yes	String	Body	App ID. For details about how to obtain an app ID, see Requesting an App ID .
clientType	Yes	Integer	Body	Type of the account used for login. <ul style="list-style-type: none"> 72: API calling.
corpId	No	String	Body	Enterprise ID. NOTE <ul style="list-style-type: none"> When this parameter is carried in the SP application scenarios, if the corpId and userId parameters are not carried or are null, the system regards that the SP administrator logs in to the system by default. This parameter is mandatory only in SP mode. Do not set this parameter in single-enterprise mode. Otherwise, the authentication will fail.

Parameter	Mandatory	Type	Location	Description
expireTime	Yes	Long	Body	<p>Timestamp when the application authentication information expires, in seconds.</p> <p>NOTE</p> <ul style="list-style-type: none"> (If the UNIX timestamp of the server is greater than expireTime when the app ID authentication request is received, the authentication fails.) Example: If the app ID authentication information is required to expire in 10 minutes, expireTime = Current Unix timestamp + 60 x 10. If the app authentication information is required not to expire, set expireTime to 0.
nonce	Yes	String	Body	<p>Random character string, which is used to calculate application authentication information.</p> <p>minLength: 32 maxLength: 64</p>
userEmail	No	String	Body	Email address.
userId	No	String	Body	<p>Third-party user ID.</p> <p>NOTE If the userId field is not carried or is empty, the user logs in as the default enterprise administrator.</p>
userName	No	String	Body	Username.
userPhone	No	String	Body	Mobile number, for example, a mobile number in Chinese Mainland +86xxxxxxx.
deptCode	No	String	Body	Department code. Obtain the value by calling the API for querying a department and its level-1 subdepartments .

Status Codes

Table 3-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Access denied.
403	Insufficient permissions.
412	The account has been disabled.
423	The account has been locked.
500	Server exception.

Response Parameters

Table 3-4 Response parameters

Parameter	Type	Description
accessToken	String	Access token.
clientType	Integer	Type of the account used for login. <ul style="list-style-type: none"> 72: API calling.
createTime	Long	Timestamp when the access token was created, in milliseconds.
daysPwdAvailable	Integer	Password validity period.
delayDelete	Boolean	Whether the token deletion is delayed.
expireTime	Long	Timestamp when the access token expires, in seconds.
firstLogin	Boolean	Whether the login is the first login. NOTE If you log in to the system for the first time, the system prompts you to change the initial password. Default value: false .

Parameter	Type	Description
forceLoginInd	Integer	Whether preemptive login is enabled. <ul style="list-style-type: none"> ● 0: disabled. ● 1: enabled. (This value is not provided.)
proxyToken	ProxyTokenDTO object	Proxy authentication information.
pwdExpired	Boolean	Whether the password has expired. Default value: false .
refreshCreateTime	Long	Timestamp when the refresh token is created, in milliseconds.
refreshExpireTime	Long	Timestamp when the refresh token expires, in seconds.
refreshToken	String	Refresh token.
refreshValidPeriod	Long	Validity period of the refresh token, in seconds.
tokenIp	String	IP address of the login user.
tokenType	Integer	Token type. <ul style="list-style-type: none"> ● 0: user access token. ● 1: meeting control token. ● 2: one-off token.
user	UserInfo object	User authentication details.
validPeriod	Long	Validity period of an access token, in seconds.

Example Request

```

POST /v2/usg/acs/auth/appauth
Connection: keep-alive
Content-Type: application/json
X-Request-ID: 5162fa32dc7e47afafeee39a72a2eec3
Accept-Language: zh-CN
Host: api.meeting.huaweicloud.com
X-Token-Type: LongTicket
Authorization: HMAC-SHA256
signature=3eca3f0f1e90ed55de38388066d02f1b7a86571a8ce30823af1df7c4edd7e086,access=ZmRiOGU0Njk5NTg2NDU4YmJkMTBjODM0ODcyZGNjNjI=
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "appId": "fdb8e4699586458bbd10c834872dcc62",
  "clientType": 72,
  "expireTime": 1627722929,
  "nonce": "EyclQsHwxhzK9OW8UEKWNfH2I3CGR2nINuU1EBpv162d42d92s",
  "userEmail": "*****",

```

```
"userId": "testuser@mycorp.com",  
"userName": "testuser",  
"userPhone": "173****9092"  
}
```

Example Response

```
HTTP/1.1 200  
"X-Envoy-Upstream-Service-Time": "230",  
"Server": "api-gateway",  
"X-Request-Id": "085d1f96cd9ddd6f3c50d70a0b2eb239",  
"X-Content-Type-Options": "nosniff",  
"Connection": "keep-alive",  
"X-Download-Options": "noopen",  
"Pragma": "No-cache",  
"Date": "Sat, 31 Jul 2021 06:18:07 GMT",  
"X-Frame-Options": "SAMEORIGIN",  
"Strict-Transport-Security": "max-age=31536000; includeSubDomains",  
"Cache-Control": "no-cache",  
"X-Xss-Protection": "1; mode=block",  
"Content-Security-Policy": "connect-src 'self' *.huaweicloud.com ;style-src 'self' 'unsafe-inline' 'unsafe-eval';object-src 'self'; font-src 'self' data:;",  
"Expires": "Thu, 01 Jan 1970 00:00:00 GMT",  
"Content-Length": "1250",  
"Content-Type": "application/json"  
  
{  
  "accessToken": "cnr1316vcp2celkbfko3z13Y2J8UdioOw0ER4kTK",  
  "tokenIp": "49.4.112.60",  
  "validPeriod": 56326,  
  "expireTime": 1627768613,  
  "createTime": 1627712287360,  
  "user": {  
    "realm": "huaweicloud.com",  
    "userId": "53e2759d388e413abf6a56743a2694c5",  
    "ucloginAccount": "Auto-53e2759d388e413abf6a56743a2694c5",  
    "serviceAccount": "sip:+99111283523475338@huaweicloud.com",  
    "numberHA1": "065eb94e5b090f70c77d4d1439f35b8e",  
    "alias1": null,  
    "companyId": "651543334",  
    "spld": "8a8df0a174a1c6680174a26f578b0000",  
    "companyDomain": null,  
    "userType": 2,  
    "adminType": 2,  
    "name": "testuser@mycorp.com",  
    "nameEn": "",  
    "isBindPhone": null,  
    "freeUser": false,  
    "thirdAccount": "testuser@mycorp.com",  
    "visionAccount": null,  
    "headPictureUrl": null,  
    "password": null,  
    "status": 0,  
    "paidAccount": null,  
    "paidPassword": null,  
    "weLinkUser": false,  
    "appId": "fdb8e4699586458bbd10c834872dcc62",  
    "tr069Account": null,  
    "corpType": 5,  
    "cloudUserId": "",  
    "grayUser": true  
  },  
  "clientType": 72,  
  "forceLoginInd": null,  
  "firstLogin": false,  
  "pwdExpired": false,  
  "daysPwdAvailable": -19678,  
  "proxyToken": null,  
  "tokenType": 0,  
}
```

```
"refreshToken":"cnr13168neNyRDfomYEIci7zVjBBybZQG90fYdX2",  
"refreshValidPeriod":2592000,  
"refreshExpireTime":1630304287,  
"refreshCreateTime":1627712287360  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'Content-Type: application/json,Accept-Language:  
zh-CN,X-Token-Type: LongTicket,Authorization: HMAC-SHA256  
signature=3eca3f0f1e90ed55de38388066d02f1b7a86571a8ce30823af1df7c4edd7e086,access=ZmRiOGU0Njk  
5NTg2NDU4YmJkMTBjODM0ODcyZGNjNjI=' -d '{"appld":  
"fdb8e4699586458bbd10c834872dcc62","clientType": 72,"corpld": "807074304","expireTime":  
1597824907000,"nonce": "EycLQsHwxhzK9OW8UEKWNfH2I3CGR2nINuU1EBpQ","userEmail":  
"*****","userId": "alice@ent01","userName": "alice","userPhone": "173****9092"}' 'https://  
api.meeting.huaweicloud.com/v2/usg/acs/auth/appauth'
```

3.2.2 Performing Authentication

Description

This API is used to authenticate Huawei Cloud Meeting account and password. After the authentication is successful, an access token is generated.

NOTE

- When **clientType** is set to **72**, up to 64 tokens can be created for each account. If 64 tokens have been created using an account and the tokens are valid, creating a token using the same account will invalidate the earliest token among the first 64 tokens.
- When **clientType** is not set to **72**, only one token can be created for each account.
- A token is valid for 12 to 24 hours.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-5 Prototype

Request Method	POST
Request Address	/v1/usg/acs/auth/account
Transport Protocol	HTTPS

Request Parameters

Table 3-6 Parameters

Parameter	Mandatory	Type	Location	Description
Authorization	Yes	String	Header	<p>Authorization information, which carries the user account and password. The account and password need to be transcoded using Base64.</p> <ul style="list-style-type: none"> Rule Basic Base64(account:password) Example Basic eWMyOjE5OTUwwWWM= = <p>NOTE The password contains 8 to 32 characters.</p>
Content-Type	Yes	String	Header	<p>Media format of the body.</p> <ul style="list-style-type: none"> Example: application/json;charset=UTF-8
X-Request-ID	No	String	Header	<p>Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.</p>
Accept-Language	No	String	Header	<p>Language. Values: zh-CN for Chinese (default) and en-US for English.</p>
HA2	No	String	Body	<p>Verification code information, which is returned by the server in verification code scenarios.</p>

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Body	User account (Huawei Cloud Meeting account). <ul style="list-style-type: none"> Example: zhangsan@huawei Apply for an account in advance. For details, see Development Process . <p>NOTE</p> <ul style="list-style-type: none"> The account must contain 1 to 255 characters.
clientType	Yes	Integer	Body	Type of the login client. <ul style="list-style-type: none"> 72: API calling.
createTokenType	No	Integer	Body	Whether to generate a token. The default value is 0 . <ul style="list-style-type: none"> 0: A token is generated for login authentication. 1: No token is generated.

Status Codes

Table 3-7 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Access denied.
412	The account has been disabled.
423	The account has been locked.
500	Server exception.

Response Parameters

Table 3-8 Response parameters

Parameter	Type	Description
accessToken	String	Access token.
clientType	Integer	Type of the account used for login. <ul style="list-style-type: none"> 72: API calling.
createTime	Long	Timestamp when the access token was created, in milliseconds.
daysPwdAvailable	Integer	Password validity period.
expireTime	Long	Timestamp when the access token expires, in seconds.
firstLogin	Boolean	Whether the login is the first login. NOTE If you log in to the system for the first time, the system prompts you to change the initial password. Default value: false .
proxyToken	ProxyTokenDTO object	Proxy authentication information.
pwdExpired	Boolean	Whether the password has expired. Default value: false .
refreshCreateTime	Long	Timestamp when a refresh token is created, in milliseconds.
refreshExpireTime	Long	Timestamp when the refresh token expires, in seconds.
refreshToken	String	Refresh token.
refreshValidPeriod	Long	Validity period of the refresh token, in seconds.
tokenIp	String	IP address of the login user.
tokenType	Integer	Token type. <ul style="list-style-type: none"> 0: user access token. 1: meeting control token. 2: one-off token.
user	UserInfo object	User authentication details.
validPeriod	Long	Validity period of the access token, in seconds.

Parameter	Type	Description
forceLoginInd	Integer	Whether preemptive login is enabled. <ul style="list-style-type: none"> ● 0: disabled. ● 1: enabled.
delayDelete	Boolean	Whether the token deletion is delayed.

Table 3-9 ProxyTokenDTO data structure

Parameter	Type	Description
accessToken	String	Short token of the proxy server, a string.
enableRerouting	Boolean	Whether to enable secondary route.
longAccessToken	String	Long token of the proxy server, a string.
middleEndInnerUrl	String	Internal network address of the middle end.
middleEndUrl	String	URL of the middle end.
validPeriod	Long	Validity period of the token, in seconds.

Table 3-10 UserInfo data structure

Parameter	Type	Description
adminType	Integer	Administrator type. <ul style="list-style-type: none"> ● 0: default administrator. ● 1: common administrator. ● 2: non-administrator, that is, common enterprise member. This value is valid only when userType is set to 2.
appId	String	App ID.
cloudUserId	String	Huawei Cloud account ID.
companyDomain	String	Enterprise domain name.
companyId	String	ID of the enterprise to which the user belongs.

Parameter	Type	Description
corpType	Integer	Huawei Cloud Meeting service package edition. <ul style="list-style-type: none"> ● 0: premium edition. ● 5: free edition. ● 6: Huawei Cloud Flexus edition.
freeUser	Boolean	Whether the login user is a free trial user.
grayUser	Boolean	Whether the login user is a gray user.
headPictureUrl	String	Profile picture link.
isBindPhone	Boolean	Whether a mobile number is bound to the account.
name	String	Username.
nameEn	String	English name of the user.
numberHA1	String	HA1 corresponding to the SIP number.
alias1	String	Alias of the user.
paidAccount	String	Paid terminal access account, which is used to log in to a smart TV.
paidPassword	String	Password of the paid terminal access account, which is used to log in to a smart TV.
password	String	Password of a free terminal access account, which is used to log in to a smart TV.
realm	String	Local authentication.
serviceAccount	String	SIP number associated with the user.
spld	String	ID of the SP that manages the enterprise to which the user belongs.
status	Integer	User status. <ul style="list-style-type: none"> ● 0: normal. ● 1: disabled.
thirdAccount	String	Third-party user account.
tr069Account	String	TR069 account.
ucloginAccount	String	Huawei Cloud Meeting account.
userId	String	UUID of a user.

Parameter	Type	Description
userType	Integer	User type. <ul style="list-style-type: none"> ● 1: SP administrator. ● 2: enterprise user. ● 3: free user. ● 10: enterprise device user. ● 11: anonymous user. ● 12: smart TV user. ● 13: IdeaHub user. ● 14: whiteboard (SmartRooms) user.
visionAccount	String	Smart TV ID.
weLinkUser	Boolean	Whether the user is a WeLink user.

Example Request

```
POST /v1/usg/acs/auth/account
Connection: keep-alive
Authorization: Basic dGVzdDp0ZXN0
Content-Type: application/json
Content-Length: 94
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "account": "zhangsan@huawei.com",
  "clientType": 72,
  "createTokenType": 0
}
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 591
Connection: keep-alive
X-Request-Id: f90fbd8714328398fcbddde0f1303c

{
  "accessToken": "cnr1810Ukd9iiytRVdcrK3LiSj0KrGHI6lbtGIgz",
  "clientType": 72,
  "createTime": 1663576164818,
  "daysPwdAvailable": -18172,
  "delayDelete": false,
  "expireTime": 1663657182,
  "firstLogin": true,
  "forceLoginInd": null,
  "proxyToken": null,
  "pwdExpired": false,
  "refreshCreateTime": 1663576164818,
  "refreshExpireTime": 1666168164,
  "refreshToken": "cnr1810GCy8II2HIuNitisGTsl7FELztZ3PvQf9D",
  "refreshValidPeriod": 2592000,
  "tokenIp": "10.8.0.90",
  "tokenType": 0,
  "user": {
```

```

"adminType": 2,
"alias1": null,
"appId": null,
"cloudUserId": null,
"companyDomain": null,
"companyId": "972897387",
"corpType": 0,
"freeUser": false,
"grayUser": false,
"headPictureUrl": null,
"isBindPhone": null,
"name": "xxxx_name",
"nameEn": null,
"numberHA1": "1ead5e5ce44849bc2718d5c...",
"paidAccount": null,
"paidPassword": null,
"password": null,
"realm": "huaweicloud.com",
"serviceAccount": "sip:+99111217192335617@huaweicloud.com",
"spld": "666bd8558e4646e1a7e1a0c99cf898e8",
"status": 0,
"thirdAccount": "zhangsan@huawei.com",
"tr069Account": "",
"ucloginAccount": "zhangsan@huawei.com",
"userId": "d2bee87b30544ee68562912fb08b1074",
"userType": 2,
"visionAccount": null,
"weLinkUser": false
},
"validPeriod": 84616
}

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -H 'content-type: application/json' -X POST -H 'Authorization:Basic dGVzdDp0ZXN0' -d
'{"account": "user01","clientType": 72,"createTokenType": 0}' 'https://
api.meeting.huaweicloud.com/v1/usg/acs/auth/account'

```

3.2.3 Updating a Token

Description

This API is used to update the validity period of a token.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-11 Prototype

Request Method	PUT
-----------------------	-----

Request Address	/v1/usg/acs/token
Transport Protocol	HTTPS

Request Parameters

Table 3-12 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Refresh token.
X-Request-ID	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 3-13 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 3-14 Response parameters

Parameter	Type	Description
accessToken	String	Access token.
clientType	Integer	Type of the account used for login. <ul style="list-style-type: none"> 72: API calling.
createTime	Long	Timestamp when the token is created, in milliseconds.
daysPwdAvailable	Integer	Password validity period.
delayDelete	Boolean	Whether the token deletion is delayed.
expireTime	Long	Timestamp when the token expires, in seconds.
firstLogin	Boolean	Whether the login is the first login. NOTE If you log in to the system for the first time, the system prompts you to change the initial password. Default value: false .
forceLoginInd	Integer	Whether preemptive login is enabled. <ul style="list-style-type: none"> 0: disabled. 1: enabled. (This value is not provided.)
proxyToken	ProxyTokenDTO object	Proxy authentication information.
pwdExpired	Boolean	Whether the password has expired. Default value: false .
refreshCreateTime	Long	Timestamp when a refresh token is created, in milliseconds.
refreshExpireTime	Long	Timestamp when the refresh token expires, in seconds.
refreshToken	String	Refresh token.
refreshValidPeriod	Long	Validity period of the refresh token, in seconds.
tokenIp	String	IP address of the user.

Parameter	Type	Description
tokenType	Integer	Token type. <ul style="list-style-type: none"> ● 0: user access token. ● 1: meeting control token. ● 2: one-off token.
user	UserInfo object	User authentication details.
validPeriod	Long	Validity period of the token, in seconds.

Example Request

```
PUT /v1/usg/acs/token
Connection: keep-alive
X-Access-Token: stbo3vX1pyduWpSFsjMCmR93mJkfQGnohJvQ
Content-Type: application/json
Content-Length: 88
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 714
Connection: keep-alive
X-Request-Id: f90fbd8714328398fcbbeddde0f1303c

{
  "accessToken": "stbo3vX1pyduWpSFsjMCmR93mJkfQGnohJvQ",
  "clientType": 72,
  "createTime": 1599102826754,
  "daysPwdAvailable": -18172,
  "delayDelete": false,
  "expireTime": 1577979513,
  "firstLogin": true,
  "forceLoginInd": null,
  "proxyToken": null,
  "pwdExpired": false,
  "refreshCreateTime": 1599102826754,
  "refreshExpireTime": 1601694826,
  "refreshToken": "stbdkkBy2XkfsiPh4cP9xev0oGL5EmiQxP1a",
  "refreshValidPeriod": 2592000,
  "tokenIp": "10.8.0.90",
  "tokenType": 0,
  "user": {
    "adminType": 2,
    "alias1": null,
    "appId": null,
    "cloudUserId": "76aaaba8a12f4c0a8a43192...",
    "companyDomain": null,
    "companyId": "f5968fc4f9c14d50905e8e66672dabc6",
    "corpType": 0,
    "freeUser": false,
    "grayUser": false,
    "headPictureUrl": null,
    "isBindPhone": null,
    "name": "xxx_name",
    "nameEn": null,
```

```
"numberHA1": "1ead5e5ce44849bc2718d5c...",
"paidAccount": null,
"paidPassword": null,
"password": null,
"realm": "huaweicloud.com",
"serviceAccount": "sip:xxxx@huaweicloud.com",
"spld": "666bd8558e4646e1a7e1a0c99cf898e8",
"status": 0,
"thirdAccount": "62fe180o133fd...",
"tr069Account": "X3M537A6IX4SC...",
"ucloginAccount": "z8b2vo875ioh54r29ad5e3552vb3gm8np2j167...",
"userId": "0d5202707123429d876....",
"userType": 2,
"visionAccount": null,
"weLinkUser": false
},
"validPeriod": 84616
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:stbo3vX1pyduWpSFsjMCMR93mJkfQGnohjvQ' 'https://api.meeting.huaweicloud.com/v1/usg/acs/token'
```

3.2.4 Verifying a Token

Description

This API is used to verify the validity of a token. After receiving the request, the server verifies the token validity and returns the result. If **needGenNewToken** is set to **true**, a new token is generated and returned.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-15 Prototype

Request Method	POST
Request Address	/v1/usg/acs/token/validate
Transport Protocol	HTTPS

Request Parameters

Table 3-16 Parameters

Parameter	Mandatory	Type	Location	Description
Content-Type	Yes	String	Header	Media format of the body, for example, application/json; charset=UTF-8 .
X-Request-ID	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
token	Yes	String	Body	Access token.
needGenerateToken	Yes	Boolean	Body	Whether to generate a new token. <ul style="list-style-type: none"> true: A new token is generated. false: No new token is generated.
needAccountInfo	No	Boolean	Body	Whether to return user account details (such as the account and username).

Status Codes

Table 3-17 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.

HTTP Status Code	Description
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 3-18 Response parameters

Parameter	Type	Description
accessToken	String	Access token.
clientType	Integer	Type of the account used for login. <ul style="list-style-type: none"> 72: API calling.
createTime	Long	Timestamp when the token is created, in milliseconds.
daysPwdAvailable	Integer	Password validity period.
delayDelete	Boolean	Whether the token deletion is delayed.
expireTime	Long	Timestamp when the token expires, in seconds.
firstLogin	Boolean	Whether the login is the first login. NOTE If you log in to the system for the first time, the system prompts you to change the initial password. Default value: false .
forceLoginInd	Integer	Whether preemptive login is enabled. <ul style="list-style-type: none"> 0: disabled. 1: enabled. (This value is not provided.)
proxyToken	ProxyTokenDTO object	Proxy authentication information.
pwdExpired	Boolean	Whether the password has expired. Default value: false .
refreshCreateTime	Long	Timestamp when a refresh token is created, in milliseconds.
refreshExpireTime	Long	Timestamp when the refresh token expires, in seconds.

Parameter	Type	Description
refreshToken	String	Refresh token.
refreshValidPeriod	Long	Validity period of the refresh token, in seconds.
tokenIp	String	IP address of the user.
tokenType	Integer	Token type. <ul style="list-style-type: none"> 0: user access token. 1: meeting control token. 2: one-off token.
user	UserInfo object	User authentication details.
validPeriod	Long	Validity period of the token, in seconds.

Example Request

```
POST /v1/usg/acs/token/validate
Connection: keep-alive
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "needGenNewToken": false,
  "needAccountInfo": true,
  "token": "stbNYluHvordsmyF2Ubt271qDr6WDAVLtLRb"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
X-Request-Id: f90fbd8714328398fcbbeddde0f1303c

{
  "accessToken": "stbNYluHvordsmyF2Ubt271qDr6WDAVLtLRb",
  "tokenIp": "10.8.0.130",
  "validPeriod": null,
  "expireTime": 1582901905,
  "createTime": null,
  "user": {
    "userId": "zhangsan@cloudlinkwp",
    "ucloginAccount": "zhangsan@cloudlinkwp",
    "serviceAccount": "sip:878587543144724349434080@huaweicloud.com",
    "numberHA1": "1ead5e5ce44849bc2718d5cb479c890f",
    "alias1": null,
    "companyId": "12345",
    "spld": "3be969ebb05a4723a234d534bcf36680",
    "companyDomain": null,
    "realm": "huawei.com",
    "userType": 2,
    "adminType": 2,
    "name": "zhangsan",

```

```
"nameEn": null,
"isBindPhone": null,
"freeUser": false,
"thirdAccount": "zhangsan@cloudlinkwp",
"visionAccount": null,
"headPictureUrl": null
},
"clientType": 72,
"forceLoginInd": null,
"firstLogin": false,
"pwdExpired": false,
"daysPwdAvailable": null
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X POST -H 'Content-Type:application/json' -d
'{"needGenNewToken":false,"needAccountInfo":true,"token":"stbNYluHvordsmyF2Ubt271qDr6WDAVLtLRb"}'
'https://api.meeting.huaweicloud.com/v1/usg/acs/token/validate'
```

3.2.5 Logging Out

Description

This API is used for logout. After receiving the request, the server deletes the token.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-19 Prototype

Request Method	DELETE
Request Address	/v1/usg/acs/token
Transport Protocol	HTTPS

Request Parameters

Table 3-20 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Access token.
X-Request-ID	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 3-21 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/usg/acs/token
Connection: keep-alive
X-Access-Token: stbo3vX1pyduWpSFsjMCMR93mJkfQGnohjvQ
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```


Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
X-Request-Id: f90fbd8714328398fcbbeddde0f1303c
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token:stbo3vX1pyduWpSFsjMCmR93mJkfQGnohjvQ' 'https://api.meeting.huaweicloud.com/v1/usg/acs/token'
```

3.2.6 Performing Proxy Authentication

Description

This API is used to authenticate a third-party proxy account. After the authentication is successful, an access token is generated. Currently, the following third-party proxy accounts are supported:

- WeLink accounts and passwords
- Third-party accounts complying with OAuth 2.0

NOTE

- When **clientType** is set to **72**, up to 64 tokens can be created for each account. If 64 tokens have been created using an account and the tokens are valid, creating a token using the same account will invalidate the earliest token among the first 64 tokens.
- When **clientType** is not set to **72**, only one token can be created for each account.
- A token is valid for 12 to 24 hours.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-22 Prototype

Request Method	POST
Request Address	/v1/usg/acs/auth/proxy
Transport Protocol	HTTPS

Request Parameters

Table 3-23 Parameters

Parameter	Mandatory	Type	Location	Description
Content-Type	Yes	String	Header	Media format of the body, for example, application/json; charset=UTF-8 .
X-Request-ID	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
account	No	String	Body	Authentication account. maxLength : 255 minLength : 0
authServerType	Yes	String	Body	Authentication service type. <ul style="list-style-type: none"> workplace: WeLink proxy authentication. oauth2: OAuth 2.0 authentication.
authType	Yes	String	Body	Authentication mode. <ul style="list-style-type: none"> AccountAndPwd: WeLink proxy authentication. AuthCode: OAuth 2.0 authentication
clientType	Yes	Integer	Body	Type of the account used for login. <ul style="list-style-type: none"> 72: API calling.
createToken	No	Integer	Body	Whether to generate a token. Default value: 0 . <ul style="list-style-type: none"> 0: A token is generated for login authentication. 1: No token is generated.

Parameter	Mandatory	Type	Location	Description
credential	No	String	Body	If OAuth 2.0 is used, set this parameter to the temporary code obtained from the authentication center.
domain	No	String	Body	Enterprise domain name. This parameter is mandatory for OAuth 2.0 authentication.
pwd	No	String	Body	Authentication password. This parameter is mandatory for WeLink proxy authentication. maxLength: 255 minLength: 0
remark	No	String	Body	Remarks.

Status Codes

Table 3-24 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Access denied.
403	Insufficient permissions.
412	The account has been disabled.
423	The account has been locked.
500	Server exception.

Response Parameters

Table 3-25 Response parameters

Parameter	Type	Description
accessToken	String	Access token.

Parameter	Type	Description
clientType	Integer	Type of the account used for login. <ul style="list-style-type: none"> ● 72: API calling.
createTime	Long	Timestamp when the token is created, in milliseconds.
daysPwdAvailable	Integer	Password validity period.
delayDelete	Boolean	Whether the token deletion is delayed.
expireTime	Long	Timestamp when the token expires, in seconds.
firstLogin	Boolean	Whether the login is the first login. NOTE If you log in to the system for the first time, the system prompts you to change the initial password. Default value: false .
forceLoginInd	Integer	Whether preemptive login is enabled. <ul style="list-style-type: none"> ● 0: disabled. ● 1: enabled. (This value is not provided.)
proxyToken	ProxyTokenDTO object	Proxy authentication information.
pwdExpired	Boolean	Whether the password has expired. Default value: false .
refreshCreateTime	Long	Timestamp when a refresh token is created, in milliseconds.
refreshExpireTime	Long	Timestamp when the refresh token expires, in seconds.
refreshToken	String	Refresh token.
refreshValidPeriod	Long	Validity period of the refresh token, in seconds.
tokenIp	String	IP address of the user.
tokenType	Integer	Token type. <ul style="list-style-type: none"> ● 0: user access token. ● 1: meeting control token. ● 2: one-off token.
user	UserInfo object	User authentication details.

Parameter	Type	Description
validPeriod	Long	Validity period of the token, in seconds.

Example Request

```
POST /v1/usg/acs/auth/proxy
Connection: keep-alive
Content-Type: application/json
X-Request-ID: 5162fa32dc7e47afafeee39a72a2eec3
Accept-Language: zh-CN
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "clientType": "72",
  "authServerType": "workplace",
  "authType": "AccountAndPwd",
  "pwd": "*****",
  "createTokenType": 0,
  "account": "*****"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 745
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Expires: Thu, 01 Jan 1970 00:00:00 GMT
X-XSS-Protection: 1; mode=block
X-Download-Options: noopen
X-Content-Type-Options: nosniff
strict-transport-security: max-age=16070400; includeSubDomains
X-Frame-Options: SAMEORIGIN
Content-Security-Policy: default-src 'self' 'unsafe-inline' 'unsafe-eval' blob: data: http: https: ; child-src * ; connect-src *
x-request-id: 5162fa32dc7e47afafeee39a72a2eec3
Server: CloudPortal

{
  "accessToken": "stbNxmd2UXEDkHQD73sqMhXB6eXw6ngvSbo9",
  "clientType": 0,
  "createTime": 1599102826754,
  "daysPwdAvailable": -18172,
  "delayDelete": false,
  "expireTime": 1577979513,
  "firstLogin": true,
  "forceLoginInd": null,
  "proxyToken": null,
  "pwdExpired": false,
  "refreshCreateTime": 1599102826754,
  "refreshExpireTime": 1601694826,
  "refreshToken": "stbYaza5VVRr3IGuLSs6ZvF0IMHHvG00tQ0f",
  "refreshValidPeriod": 2592000,
  "tokenIp": "10.8.0.90",
  "tokenType": 0,
  "user": {
    "adminType": 2,
    "alias1": null,
    "appId": null,

```

```
"cloudUserId": "76aaaba8a12f4c0a8a43192...",
"companyDomain": null,
"companyId": "f5968fc4f9c14d50905e8e66672dabc6",
"corpType": 0,
"freeUser": false,
"grayUser": false,
"headPictureUrl": null,
"isBindPhone": null,
"name": "xxxx_name",
"nameEn": null,
"numberHA1": "1ead5e5ce44849bc2718d5c...",
"paidAccount": null,
"paidPassword": null,
"password": null,
"realm": "huaweicloud.com",
"serviceAccount": "sip:xxxx@huaweicloud.com",
"spld": "666bd8558e4646e1a7e1a0c99cf898e8",
"status": 0,
"thirdAccount": "62fe180o133fd...",
"tr069Account": "X3M537A6IX4SC...",
"ucloginAccount": "z8b2vo875ioh54r29ad5e3552vb3gm8np2j167...",
"userId": "0d5202707123429d876...",
"userType": 2,
"visionAccount": null,
"weLinkUser": false
},
"validPeriod": 84616
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Request-ID: 5162fa32dc7e47afafeee39a72a2eec3,Content-Type: application/json,Accept-Language: zh-CN' -H 'date: 20190329T074551Z' -d '{"clientType":0,"authServerType":"workplace","authType":"AccountAndPwd","pwd":"*****","createTokenType":0,"account":"*****"}' 'https://api.meeting.huaweicloud.com/v1/usg/acs/auth/proxy'
```

3.2.7 Obtaining a Nonce for Redirection Without Login

Description

This API is used to obtain a nonce for redirecting to Huawei Cloud Meeting Management Platform from the access token generation page without login. After the nonce is obtained, you can redirect to the Management Platform via the link <https://meeting.huaweicloud.com/?lang=en-US&nonce=xxxxxxxxxxxxx#/login>.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-26 Prototype

Request Method	POST
Request Address	/v1/usg/acs/auth/portal-ref-nonce
Transport Protocol	HTTPS

Request Parameters

Table 3-27 Parameters

Parameter	Mandator y	Type	Location	Description
X-Access-Token	Yes	String	Header	Token authentication.
X-Request-ID	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 3-28 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Access denied.
500	Server exception.

Response Parameters

Table 3-29 Response parameters

Parameter	Type	Description
nonce	String	<p>Nonce used for login redirection. A nonce can be used only once.</p> <p>NOTE You can redirect to the Management Platform via the link https://bmeeting.huaweicloud.com/?lang=en-US&nonce=xxxxxxxxxxxx#/login.</p>

Example Request

```
POST /v1/usg/acs/auth/portal-ref-nonce
Connection: keep-alive
X-Access-Token: cnrJmYwhPxsNLky5APQm1hqWfXCDUN3d1IH
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 745
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Expires: Thu, 01 Jan 1970 00:00:00 GMT
X-XSS-Protection: 1; mode=block
X-Download-Options: noopen
X-Content-Type-Options: nosniff
strict-transport-security: max-age=16070400; includeSubDomains
X-Frame-Options: SAMEORIGIN
Content-Security-Policy: default-src 'self' 'unsafe-inline' 'unsafe-eval' blob: data: http: https: ; child-src * ; connect-src *
x-request-id: 6162fa32dc7e47afafeee39a72a2eec8
Server: CloudPortal

{
  "nonce": "1605496941659KzhX8aNBqyaY7e2esSDMnv3N9DWqpt7yo"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X POST -H 'X-Access-Token: cnrJmYwhPxsNLky5APQm1hqWfXCDUN3d1IH'
'https://api.meeting.huaweicloud.com/v1/usg/acs/auth/portal-ref-nonce'
```


3.2.8 Configuring Single Sign-On (SSO)

Description

This API is used to configure SSO.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-30 Prototype

Request Method	POST
Request Address	/v1/usg/acs/authorizeconfig
Transport Protocol	HTTPS

Request Parameters

Table 3-31 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-ID	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
Content-Type	Yes	String	Header	Media format of the body. Value: application/json or charset=UTF-8
enableSSO	Yes	Boolean	Body	Whether SSO is enabled.
domain	No	String	Body	Enterprise domain name. NOTE This parameter is mandatory when SSO is enabled.
authorizeUrl	No	String	Body	Authorization center URL. NOTE This parameter is mandatory when SSO is enabled.
getTokenUrl	No	String	Body	URL for obtaining a token. NOTE This parameter is mandatory when SSO is enabled.
clientId	No	String	Body	App ID. NOTE This parameter is mandatory when SSO is enabled.

Parameter	Mandatory	Type	Location	Description
clientSecret	No	String	Body	App key. NOTE <ul style="list-style-type: none"> When SSO is enabled and the value of getTokenUrl or getUserInfoUrl is changed, specify this parameter. When SSO is enabled, the values of getTokenUrl and getUserInfoUrl are not changed, and the app key is not changed, leave this parameter empty.
scope	No	String	Body	Authorization scope. <ul style="list-style-type: none"> openid: OIDC of OAuth 2.0.
accFieldName	No	String	Body	Account field in the third-party system. NOTE This parameter is mandatory when SSO is enabled.
getUserInfoUrl	No	String	Body	URL for querying user details.
oauth2ServerType	No	Integer	Body	Authentication mode. <ul style="list-style-type: none"> 0: OAuth 2.0 authentication.
pcSchemaUrl	No	String	Body	Schema of starting the PC client.
androidSchemaUrl	No	String	Body	Schema of starting the Android app.
iosSchemaUrl	No	String	Body	Schema of starting the iOS app.
thirdName	No	String	Body	Name field in the third-party system.
thirdEmail	No	String	Body	Email address field in the third-party system.

Parameter	Mandatory	Type	Location	Description
thirdMobile	No	String	Body	Mobile number field in the third-party system.
thirdAccessToken	No	String	Body	Access token field in the third-party system. NOTE This parameter is mandatory when SSO is enabled.
thirdHeadImageUrl	No	String	Body	Profile picture field in the third-party system.

Status Codes

Table 3-32 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/acs/authorizeconfig
Connection: keep-alive
X-Access-Token: stbVbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "enableSSO": true,
  "domain": "clouddragon.huawei.com",
  "authorizeUrl": "http://127.0.0.1:8444/sns/userinfo",
  "getTokenUrl": "http://127.0.0.1:8444/sns/oauth2/access_token",
  "clientId": "18bc94a643bd4b93aab3179726120943",
  "clientSecret": null,
```

```

"scope": null,
"accFieldName": "openid",
"getUserInfoUrl": "http://127.0.0.1:8444/sns/userinfo",
"oauth2ServerType": 0,
"pcSchemaUrl": "http://127.0.0.1:8444/schema/pc",
"androidSchemaUrl": "http://127.0.0.1:8444/schema/android",
"iosSchemaUrl": "http://127.0.0.1:8444/schema/ios",
"thirdName": "openid",
"thirdEmail": null,
"thirdMobile": null,
"thirdAccessToken": "access_token",
"thirdHeadImgUrl": null
}

```

Example Response

```

HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 28007a3bf4d6478e530b09589582f26s

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbVbWSIgzfOQ8JnbmPIoBIR3ig8xnVScQOF' -d '{"enableSSO": true,"domain": "clouddragon.huawei.com","authorizeUrl": "http://127.0.0.1:8444/sns/userinfo","getTokenUrl": "http://127.0.0.1:8444/sns/oauth2/access_token","clientId": "18bc94a643bd4b93aab3179726120943","clientSecret": null,"scope": null,"accFieldName": "openid","getUserInfoUrl": "http://127.0.0.1:8444/sns/userinfo","oauth2ServerType": 0,"pcSchemaUrl": "http://127.0.0.1:8444/schema/pc","androidSchemaUrl": "http://127.0.0.1:8444/schema/android","iosSchemaUrl": "http://127.0.0.1:8444/schema/ios","thirdName": "openid","thirdEmail": null,"thirdMobile": null,"thirdAccessToken": "access_token","thirdHeadImgUrl": null}' 'https://api.meeting.huaweicloud.com/v1/usg/acs/authorizeconfig'

```

3.2.9 Querying the SSO Configuration

Description

This API is used to query the SSO login settings.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 3-33 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/usg/acs/authorizeconfig
Transport Protocol	HTTPS

Request Parameters

Table 3-34 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 3-35 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

Table 3-36 Response Parameters

Parameter	Type	Description
enableSSO	Boolean	Whether SSO is enabled.
domain	String	Enterprise domain name.
authorizeUrl	String	Authorization center URL.
getTokenUrl	String	URL for obtaining a token.
clientId	String	App ID.
clientSecret	String	App key.
scope	String	Authorization scope. <ul style="list-style-type: none">● openid: OIDC of OAuth 2.0.
accFieldName	String	Account field in the third-party system.
getUserInfoUrl	String	URL for querying user details.
oauth2ServerType	Integer	Authentication mode. <ul style="list-style-type: none">● 0: OAuth 2.0 authentication.
pcSchemaUrl	String	Schema of starting the PC client.
androidSchemaUrl	String	Schema of starting the Android app.
iosSchemaUrl	String	Schema of starting the iOS app.
thirdName	String	Name field in the third-party system.
thirdEmail	String	Email address field in the third-party system.
thirdMobile	String	Mobile number field in the third-party system.
thirdAccessToken	String	Access token field in the third-party system.
thirdHeadImgUrl	String	Profile picture field in the third-party system.

Example Request

```
GET /v1/usg/acs/authorizeconfig
Connection: keep-alive
X-Access-Token: stb7PzruAmA6d3JJD578jIAHczGfN4Slaup9
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 551aeb8cafbbaa7bbdbc7b1c76bba8ac

{
  "enableSSO": true,
  "domain": "clouddragon.huawei.com",
  "authorizeUrl": "http://127.0.0.1:8444/sns/userinfo",
  "getTokenUrl": "http://127.0.0.1:8444/sns/oauth2/access_token",
  "clientId": "18bc94a643bd4b93aab3179726120943",
  "clientSecret": null,
  "scope": null,
  "accFieldName": "openid",
  "getUserInfoUrl": "http://127.0.0.1:8444/sns/userinfo",
  "oauth2ServerType": 0,
  "pcSchemaUrl": "http://127.0.0.1:8444/schema/pc",
  "androidSchemaUrl": "http://127.0.0.1:8444/schema/android",
  "iosSchemaUrl": "http://127.0.0.1:8444/schema/ios",
  "thirdName": "openid",
  "thirdEmail": null,
  "thirdMobile": null,
  "thirdAccessToken": "access_token",
  "thirdHeadImgUrl": null
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stb7PzruAmA6d3JJD578jIAHczGfN4Slaup9' https://api.meeting.huaweicloud.com/v1/usg/acs/authorizeconfig
```


4 Meeting Management

4.1 Examples

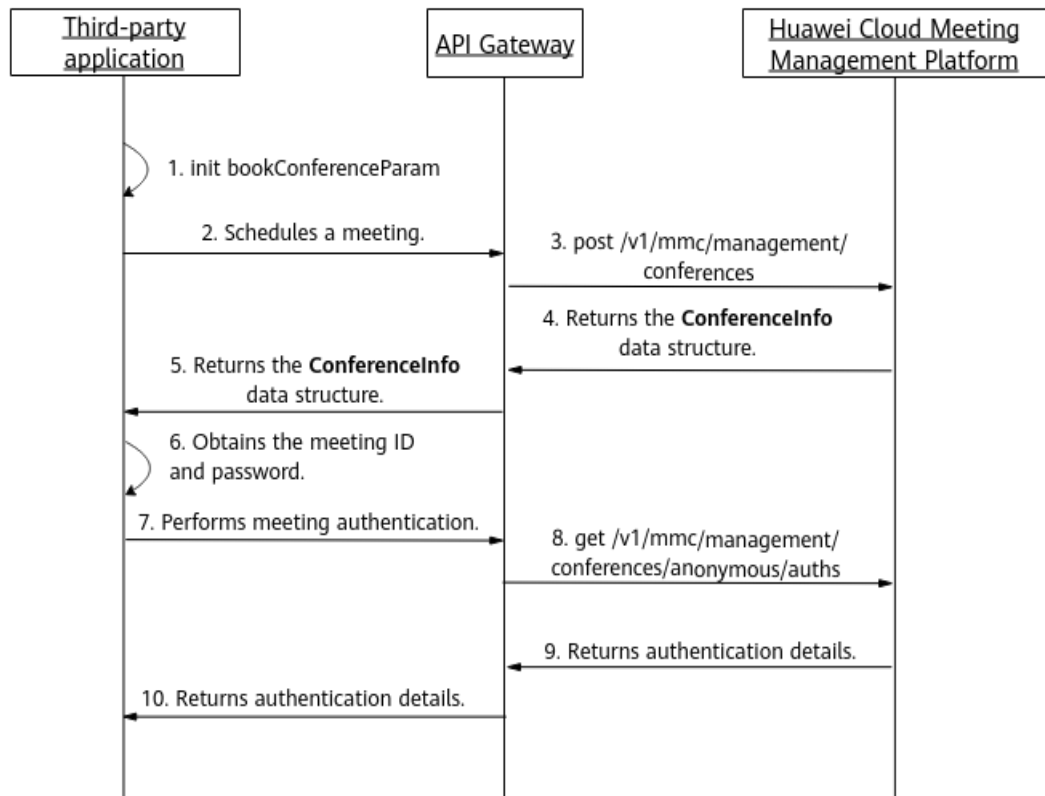
4.1.1 Quickly Joining a Meeting

Scenarios

A third-party application user can schedule a meeting by specifying parameters such as the API Gateway access address and meeting user account. If the meeting is scheduled, the user obtains a link for joining the meeting. After the user clicks the link, Huawei Cloud Meeting Management Platform automatically starts the Huawei Cloud Meeting client to join the meeting.

Service Process

Figure 4-1 Process of quickly joining a meeting



1. The third-party application initializes parameters, such as the API Gateway access address and user account.
2. The third-party application sends a meeting scheduling request to API Gateway and transfers the initialized parameters.
3. API Gateway sends a meeting scheduling request to Huawei Cloud Meeting Management Platform.
4. After the meeting is scheduled, Huawei Cloud Meeting Management Platform returns the meeting details to API Gateway.
5. API Gateway returns the received meeting details to the third-party application.
6. The third-party application obtains the meeting ID and password. To join the meeting using a link, the third-party application sends a meeting authentication request to API Gateway.
7. API Gateway sends a meeting authentication request to Huawei Cloud Meeting Management Platform.
8. After the meeting authentication is successful, Huawei Cloud Meeting Management Platform returns the authentication details to API Gateway.
9. API Gateway returns the received authentication details, including the authentication random number (**random**) and the next hop URL (**siteUrl**), to the third-party application.

10. The third-party application constructs a URL protocol of the Huawei Cloud Meeting client, uses the URL protocol to start the Huawei Cloud Meeting client, and joins the meeting.

4.2 APIs

4.2.1 Creating a Meeting

Description

This API is used to create an instant meeting or schedule a meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-1 Prototype

Request Method	POST
Request Address	/v1/mmc/management/conferences
Transport Protocol	HTTPS

Request Parameters

Table 4-2 Parameters

Parameter	Mandatory	Type	Location	Description
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X- Authorization- Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.
startTime	No	String	Body	UTC time when the meeting starts. Format: yyyy-MM-dd HH:mm. NOTE <ul style="list-style-type: none"> If you do not specify this parameter when scheduling a meeting, the meeting will start immediately. The time is the UTC±00:00 time.
length	No	Integer	Body	Meeting duration, in minutes. The default value is 30 minutes. The maximum value is 1440 minutes (24 hours) and the minimum value is 15 minutes.
subject	No	String	Body	Meeting topic. Enter a maximum of 128 characters.
mediaTypes	Yes	String	Body	Media type of the meeting. <ul style="list-style-type: none"> Voice: voice meeting. HDVideo: video meeting.
groupuri	No	String	Body	Temporary group ID used when an instant meeting is created on the client. This parameter is carried in the conference-info header or when other participants are invited. The value can contain up to 31 characters.
attendees	No	Array of Attende e objects	Body	Participant list.

Parameter	Mandatory	Type	Location	Description
cycleParams	No	CycleParams object	Body	Recurring meeting parameter list, which is mandatory for a recurring meeting series.
isAutoRecord	No	Integer	Body	Whether to automatically start recording for the meeting. This parameter is valid only when recordType is set to 2 or 3 . Default value: 0 . <ul style="list-style-type: none"> • 1: The recording is automatically started. • 0: The recording is not automatically started.
encryptMode	No	Integer	Body	Meeting media encryption mode. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • 0: adaptive encryption. • 1: forced encryption. • 2: not encrypted.
language	No	String	Body	Language of meeting SMS or email notifications. The default language is Chinese. <ul style="list-style-type: none"> • zh-CN: Chinese. • en-US: English.
timeZoneID	No	String	Body	Meeting time zone in meeting notifications. For details, see Time zone mapping . NOTE <ul style="list-style-type: none"> • For example, if timeZoneID is set to 26, the time in the meeting notification sent by Huawei Cloud Meeting is Tue, Nov 11, 2021 00:00 - 02:00 (GMT) Greenwich Mean Time:Dublin, Edinburgh, Lisbon, London. • If the notification of a non-recurring meeting is sent by a third-party system, leave this parameter blank.

Parameter	Mandatory	Type	Location	Description
recordType	No	Integer	Body	Recording type. Default value: 0 . <ul style="list-style-type: none"> ● 0: disabled. ● 1: live broadcast. ● 2: recording. ● 3: live broadcast and recording. <p>NOTE If live broadcast is involved (that is, recordType is set to 1 or 3), either liveAddress or auxAddress must be specified. Otherwise, live broadcast is unavailable.</p>
liveAddress	No	String	Body	Live streaming URL of the video. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.
auxAddress	No	String	Body	Live streaming URL of the presentation. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.
recordAuxStream	No	Integer	Body	Whether to record the presentation. This parameter is valid only when recordType is set to 2 or 3 . By default, only the video is recorded, and the presentation is not recorded. <ul style="list-style-type: none"> ● 0: Do not record the presentation. ● 1: Record the presentation.
confConfigInfo	No	ConfConfigInfo object	Body	Other meeting settings.

Parameter	Mandatory	Type	Location	Description
recordAuthType	No	Integer	Body	Recording playback authentication mode. This parameter is valid only when recordType is set to 2 or 3 . <ul style="list-style-type: none"> • 0: Users who obtain the link of the recording can watch or download the recording. • 1: Only enterprise users can watch or download the recording. • 2: Only meeting participants can view and download the recording.
vmrFlag	No	Integer	Body	Whether to use a cloud meeting room or personal meeting ID to hold the scheduled meeting. Default value: 0 . <ul style="list-style-type: none"> • 0: Do not use a cloud meeting room or personal meeting ID. • 1: Use a cloud meeting room or personal meeting ID.
vmrID	No	String	Body	ID of the cloud meeting room bound to the account that creates the meeting. Obtain the value by calling the API for Querying Cloud Meeting Rooms by Page and the Personal Meeting ID as a Common User . <p>NOTE</p> <ul style="list-style-type: none"> • Use the value of id returned by the preceding query API, not the value of vmrId. • When creating a meeting using a personal meeting ID, set vmrMode to 0. When creating a meeting using a cloud meeting room, set vmrMode to 1.
concurrentParticipants	No	Integer	Body	Maximum number of participants in the meeting. <ul style="list-style-type: none"> • 0: unlimited. • > 0

Parameter	Mandatory	Type	Location	Description
supportSimultaneousInterpretation	No	Boolean	Body	Whether simultaneous interpretation is supported. <ul style="list-style-type: none"> • true: supported. • false: not supported.

Table 4-3 Attendee data structure

Parameter	Mandatory	Type	Description
userUUID	No	String	Participant UUID.
accountId	No	String	Participant account. <ul style="list-style-type: none"> • In the account/password authentication scenario, this parameter is optional. Use the ID of a Huawei Cloud Meeting account. • In the app ID authentication scenario, this parameter is mandatory. Use the ID of a third-party user. The appld parameter must be carried.
appld	No	String	App ID. In the app ID authentication scenario, this parameter is mandatory. For details, see Requesting an App ID .
name	No	String	Participant name. The value can contain up to 96 characters.
role	No	Integer	Participant role in the meeting. Default value: 0 . <ul style="list-style-type: none"> • 0: common participant. • 1: meeting host.

Parameter	Mandatory	Type	Description
phone	No	String	<p>Number. SIP numbers or mobile numbers are supported.</p> <ul style="list-style-type: none"> • Mandatory for account/password authentication. • Optional for app ID authentication. <p>NOTE</p> <ul style="list-style-type: none"> • The number can be obtained through the API for Querying the Corporate Directory. The return value of number is a SIP number, and the return value of phone is a mobile number. • If you enter a SIP number, the system calls the corresponding soft terminal or hard terminal. If you enter a mobile number, the system dials the mobile number. • To make a call to a mobile phone, the PSTN permission must be enabled. Otherwise, the call cannot be made.
phone2	No	String	Reserved field. The value types are the same as those of the phone parameter.
phone3	No	String	Reserved field. The value types are the same as those of the phone parameter.
email	No	String	Email address. This parameter is mandatory when email notifications are required.
sms	No	String	Mobile number for receiving SMS notifications. This parameter is mandatory when SMS notifications are required.

Parameter	Mandatory	Type	Description
isMute	No	Integer	<p>Whether to mute participants automatically when they join the meeting. Default value: 0.</p> <ul style="list-style-type: none">• 0: Do not mute participants automatically.• 1: Mute participants automatically. <p>NOTE This parameter is valid only when participants are invited to this meeting.</p>
isAutoInvite	No	Integer	<p>Whether to automatically invite participants when the meeting starts. The default value is defined in the enterprise-level configuration.</p> <ul style="list-style-type: none">• 0: Do not automatically invite participants.• 1: Automatically invite participants. <p>NOTE This parameter is valid only for meetings held using concurrent participant resources and a random ID.</p>

Parameter	Mandatory	Type	Description
type	No	String	Terminal type. The options are as follows: <ul style="list-style-type: none"> • normal: soft client. • terminal: hard terminal. • outside: external participant. • mobile: mobile number. • ideahub: IdeaHub. • board: whiteboard (SmartRooms), including MaxHub, Hisense devices, and IdeaHub B2. • hwvision: smart TV. • customnumber: custom number (including the cascaded meeting numbers, mobile numbers, and hard terminal SIP numbers).
address	No	String	Information about the meeting room where the terminal is located. This field is reserved.
deptUUID	No	String	Department ID.
deptName	No	String	Department name. The value can contain up to 128 characters.
uniqueType	No	Integer	Whether the participant ID is unique in the enterprise. 0 : common participant. 1 : unique participant. NOTE When creating a cascaded meeting, set uniqueType to 1 and type to customnumber .

Table 4-4 CycleParams data structure

Parameter	Mandatory	Type	Description
startDate	Yes	String	<p>Start date of a recurring meeting series, in the format of YYYY-MM-DD. The start date cannot be earlier than the current date.</p> <p>NOTE The date should match the time zone specified by timeZoneID. It is not the date of the UTC time.</p>
endDate	Yes	String	<p>End date of a recurring meeting series, in the format of YYYY-MM-DD. The interval between the start date and end date cannot exceed one year. Up to 50 meetings are allowed between the start date and end date. If there are more than 50 meetings, Huawei Cloud Meeting Management Platform automatically adjusts the end date.</p> <p>NOTE The date should match the time zone specified by timeZoneID. It is not the date of the UTC time.</p>
cycle	Yes	String	<p>Period type. The options are as follows:</p> <ul style="list-style-type: none"> • Day • Week • Month

Parameter	Mandatory	Type	Description
interval	No	Integer	<p>Recurring meeting interval.</p> <ul style="list-style-type: none"> • If cycle is set to Day, the recurring meeting is held at an interval of the specified number of days. The value ranges from 1 to 15. • If cycle is set to Week, the recurring meeting is held at an interval of the specified number of weeks. The value ranges from 1 to 5. • If cycle is set to Month, the recurring meeting is held at an interval of the specified number of months. The value ranges from 1 to 3.

Parameter	Mandatory	Type	Description
point	No	Array of integers	<p>Point for holding the recurring meeting. This parameter is valid only when cycle is set to Week or Month.</p> <ul style="list-style-type: none"> If cycle is set to Week and point is set to 1 and 3, the meeting is held on Monday and Wednesday. If point is set to 0, the meeting is held on Sunday. If cycle is set to Month and point is set to 12 and 20, the meeting is held on the twelfth and twentieth day of each month. The point value ranges from 1 to 31. If the specified day does not exist in a month, the meeting is held at the end of the month.
preRemindDays	Yes	Integer	<p>Advance notification days. All participants receive the meeting notification <i>N</i> days before each recurring meeting starts. The value ranges from 0 to 30. The default value is 1.</p>

Table 4-5 ConfConfigInfo data structure

Parameter	Mandatory	Type	Description
isSendNotify	No	Boolean	Whether to send emails. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Send emails. • false: Do not send emails.
isSendSms	No	Boolean	Whether to send SMS notifications. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Send SMS notifications. • false: Do not send SMS notifications. <p>NOTE Only enterprises using commercial editions can send SMS notifications. For free enterprises, SMS notifications will not be sent even if isSendSms is set to true.</p>
isSendCalendar	No	Boolean	Whether to send calendar emails. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Send calendar emails. • false: Do not send calendar emails.
isAutoMute	No	Boolean	Whether to mute the soft client of a guest when the guest joins the meeting. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Mute the guest automatically. • false: Do not mute the guest automatically.

Parameter	Mandatory	Type	Description
isHardTerminalAutoMute	No	Boolean	<p>Whether to mute the hard terminal of a guest when the guest joins the meeting. The default value is defined in the enterprise-level configuration.</p> <ul style="list-style-type: none"> • true: Mute the guest automatically. • false: Do not mute the guest automatically.
isGuestFreePwd	No	Boolean	<p>Whether a guest can join the meeting without the password.</p> <ul style="list-style-type: none"> • true: Guests can join the meeting without the guest password. • false: Guests can only join the meeting using the guest password. <p>NOTE This parameter is valid only for meetings with random meeting IDs.</p>
callInRestriction	No	Integer	<p>Users who are allowed to join the meeting.</p> <ul style="list-style-type: none"> • 0: everyone. • 2: enterprise users. • 3: invited users.
allowGuestStartConf	No	Boolean	<p>Whether guests can start the meeting.</p> <ul style="list-style-type: none"> • true: Guests can start the meeting. • false: Guests cannot start the meeting. <p>NOTE This parameter is valid only for meetings with random meeting IDs.</p>
guestPwd	No	String	<p>Guest password, which contains 4 to 16 digits.</p>

Parameter	Mandatory	Type	Description
vmrIDType	No	Integer	Type of the ID of the cloud meeting room meeting. <ul style="list-style-type: none"> • 0: fixed meeting ID. • 1: random meeting ID.
prolongLength	No	Integer	Duration for automatically extending a meeting. The value ranges from 0 to 60. <ul style="list-style-type: none"> • 0: The meeting automatically ends when the end time arrives and is not extended. • Other values: The meeting is extended by the specified duration. <p>NOTE</p> <ul style="list-style-type: none"> • The meeting end time is calculated based on the meeting duration. For example, a two-hour meeting starts at 9:00 and ends at 11:00. If participants join the meeting at 8:00, the meeting automatically ends at 10:00. • If this parameter is set to other values, the meeting can be automatically extended for multiple times as long as there are participants in the meeting.
enableWaitingRoom	No	Boolean	Whether to enable the waiting room (valid only for MMR enterprises). <ul style="list-style-type: none"> • true: enabled. • false: disabled.
isHostCameraOn	No	Boolean	Whether the camera is enabled when the host joins the meeting. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Parameter	Mandatory	Type	Description
isGuestCameraOn	No	Boolean	Whether the camera is enabled when a guest joins the meeting. <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Status Codes

Table 4-6 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-7 Response parameters

Parameter	Type	Description
[Array element]	Array of ConferenceInfo	Meeting information list.

Table 4-8 ConferenceInfo data structure

Parameter	Type	Description
conferenceID	String	Meeting ID.
subject	String	Meeting topic.
size	Integer	Number of participants added during meeting scheduling.

Parameter	Type	Description
timeZoneID	String	Meeting time zone in meeting notifications. For details, see Time zone mapping . NOTE <ul style="list-style-type: none">For example, if timeZoneID is set to 26, the time in the meeting notification sent by Huawei Cloud Meeting is Tue, Nov 11, 2021 00:00 - 02:00 (GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London.
startTime	String	Meeting start time, in the format of YYYY-MM-DD HH:MM.
endTime	String	Meeting end time, in the format of YYYY-MM-DD HH:MM.
mediaTypes	String	Media type of the meeting. The value consists of one or multiple enumerated values, which are separated by commas (,). The enumerated values are as follows: Example: mediaTypes: "Voice,Data,HDVideo" <ul style="list-style-type: none">Voice: voice.Video: SD video.HDVideo: HD video.Data: data.

Parameter	Type	Description
conferenceState	String	Meeting status. <ul style="list-style-type: none"> • Schedule: The meeting is to be held. • Creating: The meeting is being created. • Created: The meeting has been created and is in progress. • Destroyed: The meeting has ended.
language	String	Language of meeting SMS or email notifications. The default language is Chinese. <ul style="list-style-type: none"> • zh-CN: Chinese. • en-US: English.
accessNumber	String	SIP number for accessing the meeting.
passwordEntry	Array of PasswordEntry objects	Meeting password. NOTE <ul style="list-style-type: none"> • When a meeting is created, the host password and guest password are returned. • When the host queries a meeting, the host password and guest password are returned. • When a guest queries a meeting, the guest password is returned.
userUUID	String	UUID of the user who schedules the meeting.
scheduserName	String	Name of the meeting scheduler.
conferenceType	Integer	Meeting type. <ul style="list-style-type: none"> • 0: ordinary meeting. • 2: recurring meeting.

Parameter	Type	Description
confType	String	Meeting type. <ul style="list-style-type: none"> • FUTURE: upcoming meeting (when the meeting is created). • IMMEDIATELY: instant meeting (when the meeting is created). • CYCLE: recurring meeting.
cycleParams	CycleParams object	Recurring meeting series parameter. This parameter list is carried when the meeting is a recurring meeting series.
isAutoMute	Integer	Whether to mute participants automatically when they join the meeting. <ul style="list-style-type: none"> • 0: Do not mute participants automatically. • 1: Mute participants automatically.
isAutoRecord	Integer	Whether to enable recording automatically. <ul style="list-style-type: none"> • 0: Do not enable recording automatically. • 1: Enable recording automatically.
chairJoinUri	String	Link for the host to join the meeting.
guestJoinUri	String	Link for guests to join the meeting.
audienceJoinUri	String	Link for attendees to watch the webinar.

Parameter	Type	Description
recordType	Integer	Recording type. <ul style="list-style-type: none"> • 0: disabled. • 1: live broadcast. • 2: recording. • 3: live broadcast and recording.
auxAddress	String	Live broadcast address of the presentation.
liveAddress	String	Live broadcast address of the video.
recordAuxStream	Integer	Whether to record the presentation. <ul style="list-style-type: none"> • 0: Do not record the presentation. • 1: Record the presentation.
recordAuthType	Integer	Authentication mode for recording playback. <ul style="list-style-type: none"> • 0: Users who obtain the link of the recording can watch or download the recording. • 1: Only enterprise users can watch or download the recording. • 2: Only meeting participants can view and download the recording.
liveUrl	String	Live broadcast URL.
confConfigInfo	ConfConfigInfo object	Other meeting settings.

Parameter	Type	Description
vmrFlag	Integer	<p>Whether to use a cloud meeting room or personal meeting ID to hold the scheduled meeting.</p> <ul style="list-style-type: none"> • 0: Do not use a cloud meeting room or personal meeting ID. • 1: Use a cloud meeting room or personal meeting ID.
isHasRecordFile	Boolean	<p>Whether a meeting recording file exists. This parameter is returned only when historical meetings are queried.</p> <p>true: The historical meeting has a recording file.</p> <p>false: The historical meeting does not have a recording file.</p>
vmrConferenceID	String	<p>Cloud meeting room meeting ID or personal meeting ID. This parameter is not empty when vmrFlag is set to 1.</p>
confUUID	String	<p>UUID of the meeting.</p> <p>NOTE</p> <ul style="list-style-type: none"> • The UUID is returned only when an instant meeting is created. It will not be returned for a scheduled meeting. • You can obtain the UUID of a historical meeting by calling the API for Querying the Historical Meeting List.

Parameter	Type	Description
partAttendeeInfo	Array of PartAttendee objects	<p>Information about invited participants.</p> <p>NOTE</p> <ul style="list-style-type: none"> • Only the information about the first 20 invited soft client participants and the first 20 invited hard terminal participants is returned. • Information about participants who proactively join the meeting is not returned. • APIs for Querying the Meeting List and Querying Meeting Details return the participants invited during meeting scheduling and the participants invited by the host during the meeting. • APIs for Querying the Ongoing Meeting List, Querying Ongoing Meeting Details, Querying the Historical Meeting List, and Viewing Historical Meeting Details return the participants invited during meeting scheduling. Participants invited by the host during the meeting are not returned.
terminlCount	Integer	Number of hard terminals, such as IdeaHubs and TE30.
normalCount	Integer	Number of common terminals, such as PCs and mobile apps.
deptName	String	Name of the enterprise that the user who schedules the meeting belongs to.

Parameter	Type	Description
role	String	Participant role. <ul style="list-style-type: none"> • chair: host. • general: guest or panelist. • audience: attendee. NOTE <ul style="list-style-type: none"> • This parameter is returned only when meeting details are queried. • The role of person who initiates the query is returned.
multiStreamFlag	Integer	Whether the meeting is a multi-streaming video meeting. <ul style="list-style-type: none"> • 1: multi-streaming video meeting.
webinar	Boolean	Whether the meeting is a webinar.
onlineAttendeeAmount	Integer	Number of online participants, including participants who are invited to the meeting or proactively join the meeting. NOTE <p>This parameter is returned only after you call the API for Querying the Ongoing Meeting List.</p>
confMode	String	Meeting type. <ul style="list-style-type: none"> • COMMON: MCU meeting. • RTC: MMR meeting.
scheduleVmr	Boolean	Whether the meeting is held in a cloud meeting room. <ul style="list-style-type: none"> • true: yes. • false: no. NOTE <p>This parameter will be discarded. Do not use it.</p>
vmrID	String	Cloud meeting room ID.

Parameter	Type	Description
concurrentParticipants	Integer	Maximum number of participants in the meeting. Default value: 0 . <ul style="list-style-type: none"> • 0: unlimited. • > 0
supportSimultaneousInterpretation	Boolean	Whether simultaneous interpretation is supported. <ul style="list-style-type: none"> • true: supported. • false: not supported.
picDisplay	MultiPicDisplayDO object	Continuous presence settings.
subConfs	Array of Subconfs objects	Recurring meeting list.
cycleSubConfID	String	UUID of the first recurring meeting.

Table 4-9 PasswordEntry data structure

Parameter	Type	Description
conferenceRole	String	Participant role in the meeting. <ul style="list-style-type: none"> • chair: meeting host. • general: common participant.
password	String	Password for a participant role, which is in plaintext mode.

Table 4-10 PartAttendee data structure

Parameter	Type	Description
name	String	Participant name.
phone	String	Number. SIP number or mobile number.

Parameter	Type	Description
phone2	String	Reserved field. The value types are the same as those of the phone parameter.
phone3	String	Reserved field. The value types are the same as those of the phone parameter.
type	String	Terminal type. The options are as follows: <ul style="list-style-type: none"> • normal: soft client. • terminal: hard terminal. • outside: external participant. • mobile: mobile number. • ideahub: IdeaHub. • board: whiteboard (SmartRooms), including MaxHub, Hisense devices, and IdeaHub B2. • hwvision: smart TV.
role	Integer	Participant role in the meeting. Default value: 0 . <ul style="list-style-type: none"> • 0: common participant. • 1: meeting host.
isMute	Integer	Whether to mute participants automatically when they join the meeting. Default value: 0 . <ul style="list-style-type: none"> • 0: Do not mute participants automatically. • 1: Mute participants automatically. <p>NOTE This parameter is valid only when participants are invited to this meeting.</p>

Table 4-11 MultiPicDisplayDO data structure

Parameter	Type	Description
manualSet	Integer	Whether continuous presence is customized. <ul style="list-style-type: none">• 0: no. The automatic continuous presence is used.• 1: yes.

Parameter	Type	Description
imageType	String	<p>Layout type. Options:</p> <ul style="list-style-type: none"> • Single: single screen. • Two: two screens. • Three: three screens. Three-2: three screens-2. Three-3: three screens-3. Three-4: three screens-4. • Four: four screens. Four-2: four screens-2. Four-3: four screens-3. • Five: five screens. Five-2: five screens-2. • Six: six screens. Six-2: six screens-2. Six-3: six screens-3. Six-4: six screens-4. Six-5: six screens-5. • Seven: seven screens. Seven-2: seven screens-2. Seven-3: seven screens-3. Seven-4: seven screens-4. • Eight: eight screens. Eight-2: eight screens-2. Eight-3: eight screens-3. Eight-4: eight screens-4. • Nine: nine screens. • Ten: 10 screens. Ten-2: 10 screens-2. Ten-3: 10 screens-3. Ten-4: 10 screens-4. Ten-5: 10 screens-5. Ten-6: 10 screens-6. • Thirteen: 13 screens. Thirteen-2: 13 screens-2. Thirteen-3: 13 screens-3. Thirteen-4: 13 screens-4. Thirteen-5: 13 screens-5. ThirteenR: 13 screens-R. ThirteenM: 13 screens-M. • Sixteen: 16 screens. • Seventeen: 17 screens. • Twenty-Five: 25 screens. • Custom: customized continuous presence (coming soon).
subscriberInPics	Array of PicInfoNotify objects	Screen list.

Parameter	Type	Description
switchTime	Integer	Interval for displaying participants in turn, in seconds. This parameter is valid only when a screen contains multiple video sources.
picLayoutInfo	PicLayoutInfo object	Details about the custom continuous presence layout. This parameter is reserved and is not supported currently.

Table 4-12 PicInfoNotify data structure

Parameter	Type	Description
index	Integer	Number of each screen in continuous presence. The number starts from 1 .
id	Array of strings	SIP number of the participant in each screen. The SIP number can be obtained through the API for Querying the Corporate Directory .
share	Integer	Whether a stream is a presentation. <ul style="list-style-type: none">• 0: no.• 1: yes.

Table 4-13 PicLayoutInfo data structure

Parameter	Type	Description
x	Integer	Number of horizontal screens.
y	Integer	Number of vertical screens.
subPicLayoutInfo List	Array of SubPicLayoutInfo objects	Continuous presence settings.

Table 4-14 SubPicLayoutInfo data structure

Parameter	Type	Description
id	Integer	Screen index.
left	Integer	Screen index from left to right.
top	Integer	Screen index from top to bottom.

Parameter	Type	Description
xSize	Integer	Horizontal size of the screen.
ySize	Integer	Vertical size of the screen.

Table 4-15 CycleParams data structure

Parameter	Type	Description
startDate	String	<p>Start date of a recurring meeting series, in the format of YYYY-MM-DD.</p> <p>The start date cannot be earlier than the current date.</p> <p>NOTE The date should match the time zone specified by timeZoneID. It is not the date of the UTC time.</p>
endDate	String	<p>End date of a recurring meeting series, in the format of YYYY-MM-DD.</p> <p>The interval between the start date and end date cannot exceed one year. Up to 50 meetings are allowed between the start date and end date. If there are more than 50 meetings, Huawei Cloud Meeting Management Platform automatically adjusts the end date.</p> <p>NOTE The date should match the time zone specified by timeZoneID. It is not the date of the UTC time.</p>
cycle	String	<p>Period type. The options are as follows:</p> <ul style="list-style-type: none"> • Day • Week • Month

Parameter	Type	Description
interval	Integer	<p>Recurring meeting interval.</p> <ul style="list-style-type: none"> • If cycle is set to Day, the recurring meeting is held at an interval of the specified number of days. The value ranges from 1 to 15. • If cycle is set to Week, the recurring meeting is held at an interval of the specified number of weeks. The value ranges from 1 to 5. • If cycle is set to Month, the recurring meeting is held at an interval of the specified number of months. The value ranges from 1 to 3.
point	Array of integers	<p>Point for holding the recurring meeting. This parameter is valid only when cycle is set to Week or Month.</p> <ul style="list-style-type: none"> • If cycle is set to Week and point is set to 1 and 3, the meeting is held on Monday and Wednesday. If point is set to 0, the meeting is held on Sunday. • If cycle is set to Month and point is set to 12 and 20, the meeting is held on the twelfth and twentieth day of each month. The point value ranges from 1 to 31. If the specified day does not exist in a month, the meeting is held at the end of the month.
preRemindDays	Integer	<p>Advance notification days. All participants receive the meeting notification <i>N</i> days before each recurring meeting starts. The value ranges from 0 to 30. The default value is 1.</p>

Table 4-16 ConfConfigInfo data structure

Parameter	Type	Description
isSendNotify	Boolean	Whether to send emails. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Send calendar emails. • false: Do not send emails.
isSendSms	Boolean	Whether to send SMS notifications. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Send SMS notifications. • false: Do not send SMS notifications.
isSendCalendar	Boolean	Whether to send calendar emails. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Send calendar emails. • false: Do not send calendar emails.
isAutoMute	Boolean	Whether to mute the soft client of a guest when the guest joins the meeting. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Mute the guest automatically. • false: Do not mute the guest automatically.
isHardTerminalAutoMute	Boolean	Whether to mute the hard terminal of a guest when the guest joins the meeting. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • true: Mute the guest automatically. • false: Do not mute the guest automatically.

Parameter	Type	Description
isGuestFreePwd	Boolean	<p>Whether guests can join the meeting without the guest password. This parameter is valid only for meetings with random IDs.</p> <ul style="list-style-type: none"> • true: Guests can join the meeting without the guest password. • false: Guests can only join the meeting using the guest password. <p>NOTE This parameter is valid only for meetings with random meeting IDs.</p>
callInRestriction	Integer	<p>Users who are allowed to join the meeting.</p> <ul style="list-style-type: none"> • 0: everyone. • 2: enterprise users. • 3: invited users.
allowGuestStart-Conf	Boolean	<p>Whether guests can start the meeting.</p> <ul style="list-style-type: none"> • true: Guests can start the meeting. • false: Guests cannot start the meeting. <p>NOTE This parameter is valid only for meetings with random meeting IDs.</p>
guestPwd	String	<p>Guest password, which contains 4 to 16 digits.</p>
vmrIDType	Integer	<p>Type of the ID of the cloud meeting room meeting.</p> <ul style="list-style-type: none"> • 0: fixed meeting ID. • 1: random meeting ID.

Parameter	Type	Description
prolongLength	Integer	<p>Duration for automatically extending a meeting. The value ranges from 0 to 60.</p> <ul style="list-style-type: none"> • 0: The meeting automatically ends when the end time arrives and is not extended. • Other values: The meeting is extended by the specified duration. <p>NOTE</p> <ul style="list-style-type: none"> • The meeting end time is calculated based on the meeting duration. For example, a two-hour meeting starts at 9:00 and ends at 11:00. If participants join the meeting at 8:00, the meeting automatically ends at 10:00. • If this parameter is set to other values, the meeting can be automatically extended for multiple times as long as there are participants in the meeting.
enableWaitingRoom	Boolean	<p>Waiting room status.</p> <ul style="list-style-type: none"> • true: enabled. • false: disabled.
isHostCameraOn	Boolean	<p>Whether the camera is enabled when the host joins the meeting.</p> <ul style="list-style-type: none"> • true: enabled. • false: disabled.
isGuestCameraOn	Boolean	<p>Whether the camera is enabled when a guest joins the meeting.</p> <ul style="list-style-type: none"> • true: enabled. • false: disabled.

Example Request

```
POST /v1/mmc/management/conferences
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
Content-Type: application/json
user-agent: WeLink-desktop
Content-Length: 548
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "subject": "Regular Meeting",
  "mediaTypes": "HDVideo",
  "startTime": "2022-08-30 12:00",
```

```

"length": 60,
"attendees": [
  {
    "accountId": "zhangshan@huawei.com",
    "appld": "caaab5a3e584497990f6a9b582a0ae42"
  }
],
"confConfigInfo": {
  "isSendNotify": false,
  "isSendSms": false,
  "isSendCalendar": false
}
}

```

Example Response

```

HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1153
Connection: keep-alive
http_proxy_id: 79ea4d8bdb461a4b811a117f9cf3dbde
Server: api-gateway
X-Request-Id: 1ccc1d7937dd0f66067aeecb9f1df241

[
  {
    "conferenceID": "914673889",
    "mediaTypes": "Data,Voice,HdVideo",
    "subject": "Regular Meeting",
    "size": 1,
    "timeZoneID": "56",
    "startTime": "2022-08-30 12:00",
    "endTime": "2022-08-30 13:00",
    "conferenceState": "Schedule",
    "accessNumber": "+991117",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
        "password": "*****"
      },
      {
        "conferenceRole": "general",
        "password": "*****"
      }
    ],
    "userUUID": "ff80808167ef1edf0167f339533d05a6",
    "scheduserName": "Kim",
    "conferenceType": 0,
    "confType": "FUTURE",
    "isAutoMute": 1,
    "isAutoRecord": 0,
    "chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/914673889/6a30b8b5a325105da031442627828e496f91021ece36405f",
    "guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/914673889/9505dc3349228b1ce0db8165590cc977bcff89785130fe0d",
    "recordType": 2,
    "confConfigInfo": {
      "isSendNotify": false,
      "isSendSms": false,
      "isAutoMute": true
    },
    "vmrFlag": 0,
    "partAttendeeInfo": [
      {
        "phone": "+99111*****4158",
        "name": "Tom",
        "type": "normal"
      }
    ]
  }
]

```

```

    }
  ],
  "terminlCount": 0,
  "normalCount": 1,
  "deptName": "Enterprise Collaboration Cloud Service Program"
}
]

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' -d '{"conferenceType": "0","subject": "user01 conference","mediaTypes": "HDVideo","attendees": [{"name": "user01","role": 1,"phone": "+8657*****"}]}' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences'

```

4.2.2 Canceling a Scheduled Meeting

Description

This API is used to cancel a scheduled meeting. An enterprise administrator can cancel meetings created by users in the enterprise. Common users can cancel only meetings created by themselves.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-17 Prototype

Request Method	DELETE
Request Address	/v1/mmc/management/conferences
Transport Protocol	HTTPS

Request Parameters

Table 4-18 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID. NOTE conferenceID returned when a meeting is created. The value is not the value of vmrConferenceID.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
type	No	Integer	Query	Operation type of canceling a meeting. By default, a meeting that has been held cannot be canceled. <ul style="list-style-type: none">1: Cancel an ongoing meeting.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authz-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-19 Status codes

HTTP Status Code	Description
200	Operation successful.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/mmc/management/conferences?conferenceID=914087436
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 40c9d32a92b43f85e5cd12617b49535b
Server: api-gateway
X-Request-Id: a02164ff20cbc841c6c0e9ab38a07e5b
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences?conferenceID=914087436'
```

4.2.3 Modifying a Scheduled Meeting

Description

This API is used to modify a scheduled meeting. After a meeting starts, it cannot be modified.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-20 Prototype

Request Method	PUT
Request Address	/v1/mmc/management/conferences
Transport Protocol	HTTPS

Request Parameters

Table 4-21 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID. NOTE conferenceID returned when a meeting is created. The value is not the value of vmrConferenceID.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.

Parameter	Mandatory	Type	Location	Description
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.
startTime	No	String	Body	UTC time when the meeting starts. Format: yyyy-MM-dd HH:mm. NOTE <ul style="list-style-type: none"> If the start time is not specified or the value is null, the meeting starts immediately. The time is the UTC ±00:00 time.
length	No	Integer	Body	Meeting duration, in minutes. The default value is 30 minutes. The maximum value is 1440 minutes (24 hours) and the minimum value is 15 minutes.
subject	No	String	Body	Meeting topic. The value can contain up to 128 characters.
mediaTypes	Yes	String	Body	Media type of the meeting. <ul style="list-style-type: none"> Voice: voice meeting. HDVideo: video meeting.
groupuri	No	String	Body	Temporary group ID used when an instant meeting is created on the client. This parameter is carried in the conference-info header or when other participants are invited. The value can contain up to 31 characters.
attendees	No	Array of Attendee objects	Body	Participant list.

Parameter	Mandatory	Type	Location	Description
cycleParams	No	CycleParams object	Body	Recurring meeting parameter list, which is mandatory for a recurring meeting series.
isAutoRecord	No	Integer	Body	Whether to automatically start recording for the meeting. This parameter is valid only when recordType is set to 2 or 3 . Default value: 0 . <ul style="list-style-type: none"> • 1: The recording is automatically started. • 0: The recording is not automatically started.
encryptMode	No	Integer	Body	Meeting media encryption mode. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • 0: adaptive encryption. • 1: forced encryption. • 2: not encrypted.
language	No	String	Body	Language of meeting SMS or email notifications. The default language is Chinese. <ul style="list-style-type: none"> • zh-CN: Chinese. • en-US: English.

Parameter	Mandatory	Type	Location	Description
timeZoneID	No	String	Body	<p>Meeting time zone in meeting notifications. For details, see Time zone mapping.</p> <p>NOTE</p> <ul style="list-style-type: none"> For example, if timeZoneID is set to 26, the time in the meeting notification sent by Huawei Cloud Meeting is Tue, Nov 11, 2021 00:00 - 02:00 (GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London. If the notification of a non-recurring meeting is sent by a third-party system, leave this parameter blank.
recordType	No	Integer	Body	<p>Recording type. Default value: 0.</p> <ul style="list-style-type: none"> 0: disabled. 1: live broadcast. 2: recording. 3: live broadcast and recording.
liveAddresses	No	String	Body	<p>Live streaming URL of the video. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.</p>
auxAddresses	No	String	Body	<p>Live streaming URL of the presentation. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.</p>

Parameter	Mandatory	Type	Location	Description
recordAuxStream	No	Integer	Body	<p>Whether to record the presentation. This parameter is valid only when recordType is set to 2 or 3. By default, only the video is recorded, and the presentation is not recorded.</p> <ul style="list-style-type: none"> • 0: Do not record the presentation. • 1: Record the presentation.
confConfigInfo	No	ConfConfigInfo object	Body	Other meeting settings.
recordAuthType	No	Integer	Body	<p>Recording playback authentication mode. This parameter is valid only when recordType is set to 2 or 3.</p> <ul style="list-style-type: none"> • 0: Users who obtain the link of the recording can watch or download the recording. • 1: Only enterprise users can watch or download the recording. • 2: Only meeting participants can view and download the recording.
vmrFlag	No	Integer	Body	<p>Whether to use a cloud meeting room to hold the scheduled meeting. Default value: 0.</p> <ul style="list-style-type: none"> • 0: Do not use any cloud meeting room. • 1: Use a cloud meeting room. <p>NOTE vmrFlag cannot be modified.</p>

Parameter	Mandatory	Type	Location	Description
vmrID	No	String	Body	ID of the cloud meeting room bound to the account that creates the meeting. Obtain the value by calling the API for Querying Cloud Meeting Rooms by Page and the Personal Meeting ID as a Common User . NOTE vmrID cannot be modified.
concurrentParticipants	No	Integer	Body	Maximum number of participants in the meeting. <ul style="list-style-type: none"> 0: unlimited. > 0
supportSimultaneousInterpretation	No	Boolean	Body	Whether simultaneous interpretation is supported. <ul style="list-style-type: none"> true: supported. false: not supported.

Status Codes

Table 4-22 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-23 Response parameters

Parameter	Type	Description
[Array element]	Array of ConferenceInfo	Meeting information list.

Example Request

```
PUT /v1/mmc/management/conferences?conferenceID=914087436
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
Content-Type: application/json
user-agent: WeLink-desktop
Content-Length: 372
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "mediaTypes": "HDVideo",
  "startTime": "2022-08-30 12:00",
  "length": 120,
  "attendees": [
    {
      "accountId": "zhangshan@huawei.com",
      "appld": "caaab5a3e584497990f6a9b582a0ae42"
    }
  ],
  "subject": "Regular Meeting"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1157
Connection: keep-alive
http_proxy_id: 462abfcfa8a41c2c5450eb7648bf5ad2
Server: api-gateway
X-Request-Id: 7ba6f742610c03a64262b126fb336a5d

[
  {
    "conferenceID": "914673889",
    "mediaTypes": "Data,Voice,HDVideo",
    "subject": "Regular Meeting",
    "size": 1,
    "timeZoneID": "56",
    "startTime": "2022-08-30 12:00",
    "endTime": "2022-08-30 13:00",
    "conferenceState": "Schedule",
    "accessNumber": "+991117",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
        "password": "*****"
      },
      {
        "conferenceRole": "general",
        "password": "*****"
      }
    ]
  }
]
```

```
],
  "userUUID": "ff80808167ef1edf0167f339533d05a6",
  "scheduserName": "Kim",
  "conferenceType": 0,
  "confType": "FUTURE",
  "isAutoMute": 1,
  "isAutoRecord": 0,
  "chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/
914673889/6a30b8b5a325105da031442627828e496f91021ece36405f",
  "guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/
914673889/9505dc3349228b1ce0db8165590cc977bcff89785130fe0d",
  "recordType": 2,
  "confConfigInfo": {
    "isSendNotify": false,
    "isSendSms": false,
    "isAutoMute": true
  },
  "vmrFlag": 0,
  "partAttendeeInfo": [
    {
      "phone": "+99111*****4158",
      "name": "Tom",
      "type": "normal"
    }
  ],
  "terminlCount": 0,
  "normalCount": 1,
  "deptName": "Enterprise Collaboration Cloud Service Program"
}
]
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:stbX5ElstO5QwOwPB9KKGWUZ1DHoFrTsQjjC' -d '{"mediaTypes": "Voice","attendees": [{"name": "user02","role": 1,"phone": "+8657*****"}],"conferenceType": "0","subject": "user02 conference"}' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences?conferenceID=914087436'
```

4.2.4 Creating a Recurring Meeting Series

Description

This API is used to schedule a recurring meeting series.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-24 Prototype

Request Method	POST
-----------------------	------

Request Address	/v1/mmc/management/cycleconferences
Transport Protocol	HTTPS

Request Parameters

Table 4-25 Parameters

Parameter	Mandatory	Type	Location	Description
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.
startTime	No	String	Body	UTC time when the meeting starts. Format: yyyy-MM-dd HH:mm. NOTE <ul style="list-style-type: none"> If you do not specify this parameter when scheduling a meeting, the meeting will start immediately. The time is the UTC±00:00 time.

Parameter	Mandatory	Type	Location	Description
length	No	Integer	Body	Meeting duration, in minutes. The default value is 30 minutes. The maximum value is 1440 minutes (24 hours) and the minimum value is 15 minutes.
subject	No	String	Body	Meeting topic. The value can contain up to 128 characters.
mediaTypes	Yes	String	Body	Media type of the meeting. <ul style="list-style-type: none"> • Voice: voice meeting. • HDVideo: video meeting.
groupuri	No	String	Body	Temporary group ID used when an instant meeting is created on the client. This parameter is carried in the conference-info header or when other participants are invited. The value can contain up to 31 characters.
attendees	No	Array of Attendee objects	Body	Participant list.
cycleParams	No	CycleParams object	Body	Recurring meeting parameter list, which is mandatory for a recurring meeting series.
isAutoRecord	No	Integer	Body	Whether to automatically start recording for the meeting. This parameter is valid only when recordType is set to 2 or 3 . Default value: 0 . <ul style="list-style-type: none"> • 1: The recording is automatically started. • 0: The recording is not automatically started.
encryptMode	No	Integer	Body	Meeting media encryption mode. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> • 0: adaptive encryption. • 1: forced encryption. • 2: not encrypted.

Parameter	Mandatory	Type	Location	Description
language	No	String	Body	<p>Language of meeting SMS or email notifications. The default language is Chinese.</p> <ul style="list-style-type: none"> • zh-CN: Chinese. • en-US: English.
timeZoneID	No	String	Body	<p>Meeting time zone in meeting notifications. For details, see Time zone mapping.</p> <p>NOTE</p> <ul style="list-style-type: none"> • For example, if timeZoneID is set to 26, the time in the meeting notification sent by Huawei Cloud Meeting is Tue, Nov 11, 2021 00:00 - 02:00 (GMT) Greenwich Mean Time:Dublin, Edinburgh, Lisbon, London. • startDate and endDate must match the time zone specified by timeZoneID.
recordType	No	Integer	Body	<p>Recording type. Default value: 0.</p> <ul style="list-style-type: none"> • 0: disabled. • 1: live broadcast. • 2: recording. • 3: live broadcast and recording. <p>NOTE</p> <p>If live broadcast is involved (that is, recordType is set to 1 or 3), either liveAddress or auxAddress must be specified. Otherwise, live broadcast is unavailable.</p>
liveAddress	No	String	Body	<p>Live streaming URL of the video. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.</p>

Parameter	Mandatory	Type	Location	Description
auxAddress	No	String	Body	Live streaming URL of the presentation. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.
recordAuxStream	No	Integer	Body	Whether to record the presentation. This parameter is valid only when recordType is set to 2 or 3. By default, only the video is recorded, and the presentation is not recorded. <ul style="list-style-type: none"> • 0: Do not record the presentation. • 1: Record the presentation.
confConfigInfo	No	ConfConfigInfo object	Body	Other meeting settings.
recordAuthType	No	Integer	Body	Recording playback authentication mode. This parameter is valid only when recordType is set to 2 or 3. <ul style="list-style-type: none"> • 0: Users who obtain the link of the recording can watch or download the recording. • 1: Only enterprise users can watch or download the recording. • 2: Only meeting participants can view and download the recording.
vmrFlag	No	Integer	Body	Whether to use a cloud meeting room or personal meeting ID to hold the scheduled meeting. Default value: 0. <ul style="list-style-type: none"> • 0: Do not use a cloud meeting room or personal meeting ID. • 1: Use a cloud meeting room or personal meeting ID.

Parameter	Mandatory	Type	Location	Description
vmrID	No	String	Body	<p>ID of the cloud meeting room bound to the account that creates the meeting. Obtain the value by calling the API for Querying Cloud Meeting Rooms by Page and the Personal Meeting ID as a Common User.</p> <p>NOTE</p> <ul style="list-style-type: none"> Use the value of id returned by the preceding query API, not the value of vmrId. When creating a meeting using a personal meeting ID, set vmrMode to 0. When creating a meeting using a cloud meeting room, set vmrMode to 1.
concurrentParticipants	No	Integer	Body	<p>Maximum number of participants in the meeting.</p> <ul style="list-style-type: none"> 0: unlimited. > 0
supportSimultaneousInterpretation	No	Boolean	Body	<p>Whether simultaneous interpretation is supported.</p> <ul style="list-style-type: none"> true: supported. false: not supported.

Status Codes

Table 4-26 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-27 Response parameters

Parameter	Type	Description
[Array element]	Array of ConferenceInfo	Meeting information list.

Table 4-28 Subconfs data structure

Parameter	Type	Description
cycleSubConfID	string	UUID of a recurring meeting.
conferenceID	string	Meeting ID.
mediaType	string	Media type of the meeting. <ul style="list-style-type: none">• Voice: voice.• Video: SD video.• HDVideo: HD video.• Data: data.
startTime	string	Meeting start time (format: YYYY-MM-DD HH:MM).
endTime	string	Meeting end time (format: YYYY-MM-DD HH:MM).
isAutoRecord	Integer	Whether recording is enabled automatically. <ul style="list-style-type: none">• 0: no.• 1: yes.
confConfigInfo	Confconfingin fo object	Other settings about the recurring meeting.
recordAuthType	Integer	Authentication mode for watching or downloading the recording. <ul style="list-style-type: none">• 0: Users who obtain the link of the recording can watch or download the recording.• 1: Only enterprise users can watch or download the recording.• 2: Only meeting participants can view and download the recording.
description	string	Meeting description. The value can contain up to 200 characters.

Table 4-29 Confconfiginfo data structure

Parameter	Type	Description
callInRestriction	Integer	Users who are allowed to join the meeting. <ul style="list-style-type: none"> ● 0: everyone. ● 2: enterprise users. ● 3: invited users.
audienceCallInRestriction	Integer	Users allowed to join the webinar as attendees. <ul style="list-style-type: none"> ● 0: everyone. ● 2: enterprise users and invited users.
allowGuestStartConf	Boolean	Whether guests can start the meeting. <ul style="list-style-type: none"> ● true: Guests can start the meeting. ● false: Guests cannot start the meeting. <p>NOTE This parameter is valid only for meetings with random IDs.</p>
enableWaitingRoom	Boolean	Whether the waiting room is enabled.
showAudienceCountInfo	ShowAudienceCountInfo object	Rule of displaying the number of webinar attendees.

Table 4-30 ShowAudienceCountInfo data structure

Parameter	Type	Description
showAudienceMode	Integer	Rule of displaying the number of attendees. The server calculates and delivers the number of attendees to clients. <ul style="list-style-type: none"> ● 0: not displayed. ● 1 The number of attendees is displayed after multiplication. You can set the multiplication based on the number of attendees in real time or the accumulated number of attendees (for example, N). You can configure a multiplier (X) and attendee quantity base (Y). Number of attendees displayed = $N \times X + Y$.

Parameter	Type	Description
baseAudienceCount	Integer	Attendee quantity base. The value ranges from 0 to 10,000.
multiple	Double	Multiplier. The value ranges from 1 to 10. The value can be accurate to one decimal place.

Example Request

```
POST /v1/mmc/management/cycleconferences
Connection: keep-alive
X-Access-Token: cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN
Content-Type: application/json
user-agent: WeLink-desktop
Content-Length: 548
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
{
  "subject": "Regular Recurring Meeting",
  "mediaTypes": "Data,Voice,HDVideo",
  "startTime": "",
  "length": 120,
  "timeZoneID": "56",
  "vmrFlag": 1,
  "vmrID": "ff80808167ef1edf0167f339533f05a8",
  "cycleParams": {
    "startDate": "2021-08-31",
    "endDate": "2021-09-02",
    "cycle": "Day",
    "interval": 1,
    "preRemindDays": 1
  },
  "attendees": [
    {
      "userUUID": "ff80808167ef1edf0167f339533d05a6",
      "name": "Suzhou Branch",
      "email": "*****",
      "sms": "+991116006724",
      "deptName": "Enterprise Collaboration Cloud Service Program",
      "role": 0,
      "phone": "+99119*****724",
      "type": "normal"
    }
  ],
  "confConfigInfo": {
    "isSendNotify": "false",
    "isSendSms": "false",
    "isSendCalendar": "false"
  },
  "recordType": 0
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1153
Connection: keep-alive
http_proxy_id: 79ea4d8bdb461a4b811a117f9cf3dbde
Server: api-gateway
X-Request-Id: 1ccc1d7937dd0f66067aeecb9f1df241
```

```
[
  {
    "conferenceID": "986256843",
    "mediaTypes": "HDVideo,Data,Voice",
    "subject": "Regular Recurring Meeting",
    "size": 0,
    "timeZoneID": "56",
    "startTime": "2021-09-01 08:39",
    "endTime": "2021-09-01 09:09",
    "conferenceState": "Schedule",
    "accessNumber": "+86571150",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
        "password": "*****"
      },
      {
        "conferenceRole": "general",
        "password": "*****"
      }
    ],
    "userUUID": "fe235be7aa6045b98a33f27b365cbca9",
    "scheduserName": "Suzhou Branch",
    "multiStreamFlag": 1,
    "conferenceType": 2,
    "confType": "CYCLE",
    "cycleParams": {
      "startDate": "2021-09-01",
      "cycle": "Day",
      "endDate": "2021-09-02",
      "cycleCount": 0,
      "interval": 1,
      "preRemindDays": 1
    },
    "isAutoMute": 0,
    "isHardTerminalAutoMute": 0,
    "isSoftTerminalAutoMute": 0,
    "isAutoRecord": 0,
    "chairJoinUri": "https://100.95.188.184:443/#/j/986256843/
fa4def332cb83f5b1ec74c64d0658a8570f45ad3e8d0df8c",
    "guestJoinUri": "https://100.95.188.184:443/#/j/
986256843/53f55ec44263d666e8ed70594624aa10497c631a91d3b8c1",
    "recordType": 0,
    "recordAuxStream": 0,
    "recordAuthType": 2,
    "confConfigInfo": {
      "inviteMode": "AUTO_INVITE",
      "prolongLength": 15,
      "isGuestFreePwd": false,
      "isSendNotify": true,
      "isSendSms": true,
      "isSendCalendar": true,
      "isAutoMute": false,
      "isHardTerminalAutoMute": false,
      "callInRestriction": 0,
      "audienceCallInRestriction": 0,
      "allowGuestStartConf": true,
      "enableWaitingRoom": false
    },
    "vmrFlag": 0,
    "scheduleVmr": false,
    "isHasRecordFile": false,
    "terminlCount": 0,
    "normalCount": 0,
    "deptName": "corpzxytest111",
    "confMode": "RTC",
    "webinar": false,
  }
]
```



```
"concurrentParticipants": 0,
"subConfs": [
  {
    "cycleSubConfID": "fe24d1350a3611ecbe71a328ac3ca004",
    "conferenceID": "986256843",
    "startTime": "2021-09-01 08:39",
    "endTime": "2021-09-01 09:09",
    "mediaType": "HDVideo,Data,Voice",
    "isAutoRecord": 0,
    "recordAuthType": 2,
    "confConfigInfo": {
      "callInRestriction": 0,
      "audienceCallInRestriction": 0,
      "allowGuestStartConf": true,
      "enableWaitingRoom": false
    }
  },
  {
    "cycleSubConfID": "fe24d1360a3611ecbe71fdd2c36bc8c2",
    "conferenceID": "986256843",
    "startTime": "2021-09-02 08:39",
    "endTime": "2021-09-02 09:09",
    "mediaType": "HDVideo,Data,Voice",
    "isAutoRecord": 0,
    "recordAuthType": 2,
    "confConfigInfo": {
      "callInRestriction": 0,
      "audienceCallInRestriction": 0,
      "allowGuestStartConf": true,
      "enableWaitingRoom": false
    }
  }
]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN' -d '{"conferenceType": "2", "subject": "user01 conference", "mediaTypes": "HDVideo", "attendees": [{"name": "user01", "role": 1, "phone": "+8657*****"}], "cycleParams": {"startDate": "2021-08-31", "endDate": "2021-09-02", "cycle": "Day", "interval": 1, "preRemindDays": 1}}' https://api.meeting.huaweicloud.com/v1/mmc/management/cycleconferences'
```

4.2.5 Canceling a Recurring Meeting Series

Description

This API is used to cancel a recurring meeting series.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-31 Prototype

Request Method	DELETE
Request Address	/v1/mmc/management/cycleconferences
Transport Protocol	HTTPS

Request Parameters

Table 4-32 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
type	No	Integer	Query	Operation type of canceling a meeting. By default, a meeting that has been held cannot be canceled. <ul style="list-style-type: none">• 1: Cancel an ongoing meeting.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authz-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.

Parameter	Mandatory	Type	Location	Description
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-33 Status codes

HTTP Status Code	Description
200	Operation successful.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/mmc/management/cycleconferences?conferenceID=984697426
Connection: keep-alive
X-Access-Token: cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 40c9d32a92b43f85e5cd12617b49535b
Server: api-gateway
X-Request-Id: a02164ff20cbc841c6c0e9ab38a07e5b
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token:cnr1510zTBhUrfUymQ0srhW2RYS99r9G5SQoTLWN' 'https://api.meeting.huaweicloud.com/v1/mmc/management/cycleconferences?conferenceID=984697426'
```

4.2.6 Canceling a Recurring Meeting

Description

This API is used to cancel a recurring meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-34 Prototype

Request Method	DELETE
Request Address	/v1/mmc/management/conferences/cyclesubconf
Transport Protocol	HTTPS

Request Parameters

Table 4-35 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
type	No	Integer	Query	Operation type of canceling a meeting. By default, a meeting that has been held cannot be canceled. <ul style="list-style-type: none">● 1: Cancel an ongoing meeting.

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	<p>Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID.</p> <p>Note:</p> <ul style="list-style-type: none"> The value corresponds to the X-Auth-Token header in the documentation. For details, see the X-Auth-Token header in API description of <i>Server API Reference</i>.
X-Authorization-Type	No	String	Header	<p>Whether the request is sent from a third-party portal.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>
X-Site-Id	No	String	Header	<p>ID of the HCS Online site where the authentication is performed.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>
cycleSubConfIDs	Yes	Array of strings	Body	List of IDs of recurring meetings to be canceled.

Status Codes

Table 4-36 Status codes

HTTP Status Code	Description
200	Operation successful.
401	Authentication is not performed or fails.

HTTP Status Code	Description
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/mmc/management/conferences/cyclesubconf?conferenceID=985325849
Connection: keep-alive
X-Access-Token: cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
{
  "cycleSubConfIDs": [
    "04eb5acd0a0511ec8546359413178027",
    "04eb5ace0a0511ec854667fcfbf3d9a9"
  ]
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 0
Connection: keep-alive
http_proxy_id: 40c9d32a92b43f85e5cd12617b49535b
Server: api-gateway
X-Request-Id: a02164ff20cbc841c6c0e9ab38a07e5b
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token:cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/cyclesubconf?conferenceID=985325849'
```

4.2.7 Modifying a Recurring Meeting Series

Description

This API is used to modify a scheduled recurring meeting series. After a meeting starts, it cannot be modified.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-37 Prototype

Request Method	PUT
Request Address	/v1/mmc/management/cycleconferences
Transport Protocol	HTTPS

Request Parameters

Table 4-38 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Parameter	Mandatory	Type	Location	Description
startTime	No	String	Body	UTC time when the meeting starts. Format: yyyy-MM-dd HH:mm. NOTE <ul style="list-style-type: none"> If the start time is not specified or the value is null, the meeting starts immediately. The time is the UTC ±00:00 time.
length	No	Integer	Body	Meeting duration, in minutes. The default value is 30 minutes. The maximum value is 1440 minutes (24 hours) and the minimum value is 15 minutes.
subject	No	String	Body	Meeting topic. The value can contain up to 128 characters.
mediaTypes	Yes	String	Body	Media type of the meeting. <ul style="list-style-type: none"> Voice: voice meeting. HDVideo: video meeting.
groupuri	No	String	Body	Temporary group ID used when an instant meeting is created on the client. This parameter is carried in the conference-info header or when other participants are invited. The value can contain up to 31 characters.
attendees	No	Array of Attendee objects	Body	Participant list.
cycleParams	No	CycleParams object	Body	Recurring meeting parameter list, which is mandatory for a recurring meeting series.

Parameter	Mandatory	Type	Location	Description
isAutoRecord	No	Integer	Body	<p>Whether to automatically start recording for the meeting. This parameter is valid only when recordType is set to 2 or 3. Default value: 0.</p> <ul style="list-style-type: none"> • 1: The recording is automatically started. • 0: The recording is not automatically started.
encryptMode	No	Integer	Body	<p>Meeting media encryption mode. The default value is defined in the enterprise-level configuration.</p> <ul style="list-style-type: none"> • 0: adaptive encryption. • 1: forced encryption. • 2: not encrypted.
language	No	String	Body	<p>Language of meeting SMS or email notifications. The default language is Chinese.</p> <ul style="list-style-type: none"> • zh-CN: Chinese. • en-US: English.
timeZoneID	No	String	Body	<p>Meeting time zone in meeting notifications. For details, see Time zone mapping.</p> <p>NOTE</p> <ul style="list-style-type: none"> • For example, if timeZoneID is set to 26, the time in the meeting notification sent by Huawei Cloud Meeting is Tue, Nov 11, 2021 00:00 - 02:00 (GMT) Greenwich Mean Time:Dublin, Edinburgh, Lisbon, London. • If the notification of a non-recurring meeting is sent by a third-party system, leave this parameter blank.

Parameter	Mandatory	Type	Location	Description
recordType	No	Integer	Body	Recording type. Default value: 0 . <ul style="list-style-type: none"> • 0: no recording. • 1: live broadcast. • 2: recording. • 3: live broadcast and recording.
liveAddress	No	String	Body	Live streaming URL of the video. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.
auxAddress	No	String	Body	Live streaming URL of the presentation. This parameter is valid when the recording type is live broadcast or live broadcast + recording. The value can contain up to 255 characters.
recordAuxStream	No	Integer	Body	Whether to record the presentation. This parameter is valid only when recordType is set to 2 or 3 . By default, only the video is recorded, and the presentation is not recorded. <ul style="list-style-type: none"> • 0: Do not record the presentation. • 1: Record the presentation.
confConfigInfo	No	ConfConfigInfo object	Body	Other meeting settings.

Parameter	Mandatory	Type	Location	Description
recordAuthType	No	Integer	Body	<p>Recording playback authentication mode. This parameter is valid only when recordType is set to 2 or 3.</p> <ul style="list-style-type: none"> • 0: Users who obtain the link of the recording can watch or download the recording. • 1: Only enterprise users can watch or download the recording. • 2: Only meeting participants can view and download the recording.
vmrFlag	No	Integer	Body	<p>Whether to use a cloud meeting room or personal meeting ID to hold the scheduled meeting. Default value: 0.</p> <ul style="list-style-type: none"> • 0: Do not use a cloud meeting room or personal meeting ID. • 1: Use a cloud meeting room or personal meeting ID. <p>NOTE vmrFlag cannot be modified.</p>
vmrID	No	String	Body	<p>ID of the cloud meeting room bound to the account that creates the meeting. Obtain the value by calling the API for Querying Cloud Meeting Rooms by Page and the Personal Meeting ID as a Common User.</p> <p>NOTE vmrID cannot be modified.</p>
concurrentParticipants	No	Integer	Body	<p>Maximum number of participants in the meeting. Default value: 0.</p> <ul style="list-style-type: none"> • 0: unlimited. • > 0

Parameter	Mandatory	Type	Location	Description
supportSimultaneousInterpretation	No	Boolean	Body	Whether simultaneous interpretation is supported. <ul style="list-style-type: none"> true: supported. false: not supported.

Status Codes

Table 4-39 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-40 Response parameters

Parameter	Type	Description
[Array element]	Array of ConferenceInfo	Meeting information list.

Example Request

```
PUT /v1/mmc/management/cycleconferences?conferenceID=914087436
Connection: keep-alive
X-Access-Token: cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN
Content-Type: application/json
user-agent: WeLink-desktop
Content-Length: 372
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "mediaTypes": "HDVideo",
  "cycleParams": {
    "startDate": "2021-09-01",
    "endDate": "2021-09-02",
    "cycle": "Day",
    "preRemindDays": 1
  }
}
```

```
}  
}
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 2164  
Connection: keep-alive  
http_proxy_id: 462abfcfa8a41c2c5450eb7648bf5ad2  
Server: api-gateway  
X-Request-Id: 7ba6f742610c03a64262b126fb336a5d  
  
[  
  {  
    "conferenceID": "986256843",  
    "mediaTypes": "HDVideo,Data,Voice",  
    "subject": "Conference Topic",  
    "size": 0,  
    "timeZoneID": "56",  
    "startTime": "2021-09-01 08:46",  
    "endTime": "2021-09-01 09:16",  
    "conferenceState": "Schedule",  
    "accessNumber": "+86571150",  
    "language": "zh-CN",  
    "passwordEntry": [  
      {  
        "conferenceRole": "chair",  
        "password": "*****"  
      },  
      {  
        "conferenceRole": "general",  
        "password": "*****"  
      }  
    ],  
    "userUUID": "fe235be7aa6045b98a33f27b365cbca9",  
    "scheduserName": "Suzhou Branch",  
    "multiStreamFlag": 1,  
    "conferenceType": 2,  
    "confType": "CYCLE",  
    "cycleParams": {  
      "startDate": "2021-09-01",  
      "cycle": "Day",  
      "endDate": "2021-09-02",  
      "cycleCount": 0,  
      "interval": 1,  
      "preRemindDays": 1  
    },  
    "isAutoMute": 0,  
    "isHardTerminalAutoMute": 0,  
    "isSoftTerminalAutoMute": 0,  
    "isAutoRecord": 0,  
    "chairJoinUri": "https://100.95.188.184:443/#/j/986256843/  
fa4def332cb83f5b1ec74c64d0658a8570f45ad3e8d0df8c",  
    "guestJoinUri": "https://100.95.188.184:443/#/j/  
986256843/53f55ec44263d666e8ed70594624aa10497c631a91d3b8c1",  
    "recordType": 0,  
    "recordAuxStream": 0,  
    "recordAuthType": 2,  
    "confConfigInfo": {  
      "inviteMode": "AUTO_INVITE",  
      "prolongLength": 15,  
      "isGuestFreePwd": false,  
      "isSendNotify": true,  
      "isSendSms": true,  
      "isSendCalendar": true,  
      "isAutoMute": false,  
      "isHardTerminalAutoMute": false,  
    }  
  }  
]
```

```
"callInRestriction": 0,
"audienceCallInRestriction": 0,
"allowGuestStartConf": true,
"enableWaitingRoom": false
},
"vmrFlag": 0,
"scheduleVmr": false,
"isHasRecordFile": false,
"terminlCount": 0,
"normalCount": 0,
"deptName": "corpzxytest111",
"confMode": "RTC",
"webinar": false,
"concurrentParticipants": 0,
"subConfs": [
  {
    "cycleSubConfID": "ff1cf7020a3711ecbe71e167f3b9d5b1",
    "conferenceID": "986256843",
    "startTime": "2021-09-01 08:46",
    "endTime": "2021-09-01 09:16",
    "mediaType": "HDVideo,Data,Voice",
    "isAutoRecord": 0,
    "recordAuthType": 2,
    "confConfigInfo": {
      "callInRestriction": 0,
      "audienceCallInRestriction": 0,
      "allowGuestStartConf": true,
      "enableWaitingRoom": false
    }
  },
  {
    "cycleSubConfID": "ff1cf7030a3711ecbe7183f6162d654d",
    "conferenceID": "986256843",
    "startTime": "2021-09-02 08:46",
    "endTime": "2021-09-02 09:16",
    "mediaType": "HDVideo,Data,Voice",
    "isAutoRecord": 0,
    "recordAuthType": 2,
    "confConfigInfo": {
      "callInRestriction": 0,
      "audienceCallInRestriction": 0,
      "allowGuestStartConf": true,
      "enableWaitingRoom": false
    }
  }
]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN' -d '{"mediaTypes": "HDVideo","cycleParams":{"startDate": "2021-09-01","endDate": "2021-09-02","cycle": "Day","preRemindDays": 1}}' 'https://api.meeting.huaweicloud.com/v1/mmc/management/cycleconferences?conferenceID=986256843'
```

4.2.8 Modifying a Recurring Meeting

Description

This API is used to modify a scheduled recurring meeting. After a meeting starts, it cannot be modified.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-41 Prototype

Request Method	PUT
Request Address	/v1/mmc/management/conferences/cyclesubconf
Transport Protocol	HTTPS

Request Parameters

Table 4-42 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Authzation-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.
cycleSubConfID	Yes	string	Body	UUID of a recurring meeting.
mediaTypes	Yes	string	Body	Media type of the meeting. <ul style="list-style-type: none"> • Voice: voice meeting. • HDVideo: video meeting.
startTime	Yes	string	Body	UTC time when the meeting starts. Format: yyyy-MM-dd HH:mm. NOTE <ul style="list-style-type: none"> • If the start time is not specified or the value is null, the meeting starts immediately. • The time is the UTC ±00:00 time.
length	Yes	Integer	Body	Meeting duration, in minutes. The default value is 30 minutes. The maximum value is 1440 minutes (24 hours) and the minimum value is 15 minutes.

Parameter	Mandatory	Type	Location	Description
isAutoRecord	No	Integer	Body	Whether to automatically start recording for the meeting. This parameter is valid only when recordType is set to 2 or 3. Default value: 0. <ul style="list-style-type: none"> 1: The recording is automatically started. 0: The recording is not automatically started.
confConfigInfo	No	ConfConfigInfo object	Body	Other meeting settings.
recordAuthType	No	Integer	Body	Recording playback authentication mode. This parameter is valid only when recordType is set to 2 or 3. <ul style="list-style-type: none"> 0: Users who obtain the link of the recording can watch or download the recording. 1: Only enterprise users can watch or download the recording. 2: Only meeting participants can view and download the recording.
description	No	string	Body	Meeting description, which contains up to 200 characters.

Table 4-43 ConfConfigInfo data structure

Parameter	Mandatory	Type	Location	Description
callInRestriction	No	Integer	Body	Users who are allowed to join the meeting. <ul style="list-style-type: none"> • 0: everyone. • 2: enterprise users. • 3: invited users.
audienceCallInRestriction	No	Integer	Body	Users allowed to join the webinar as attendees. <ul style="list-style-type: none"> • 0: everyone. • 2: enterprise users and invited users.
allowGuestStartConf	No	Boolean	Body	Whether guests can start the meeting. <ul style="list-style-type: none"> • true: Guests can start the meeting. • false: Guests cannot start the meeting. <p>NOTE This parameter is valid only for meetings with random IDs.</p>
enableWaitingRoom	No	Boolean	Body	Whether the waiting room is enabled.

Parameter	Mandatory	Type	Location	Description
showAudienceCountInfo	No	ShowAudienceCountInfo object	Body	Rule of displaying the number of webinar attendees.

Table 4-44 ShowAudienceCountInfo data structure

Parameter	Mandatory	Type	Location	Description
showAudienceMode	No	Integer	Body	<p>Rule of displaying the number of attendees. The server calculates and delivers the number of attendees to clients.</p> <ul style="list-style-type: none"> • 0: not displayed. • 1 The number of attendees is displayed after multiplication. You can set the multiplication based on the number of attendees in real time or the accumulated number of attendees (for example, N). You can configure a multiplier (X) and attendee quantity base (Y). Number of attendees displayed = $N \times X + Y$.

Parameter	Mandatory	Type	Location	Description
baseAudienceCount	No	Integer	Body	Attendee quantity base. The value ranges from 0 to 10,000.
multiple	No	Double	Body	Multiplier. The value ranges from 1 to 10. The value can be accurate to one decimal place.

Status Codes

Table 4-45 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/management/conferences/cyclesubconf?conferenceID=985325849
Connection: keep-alive
X-Access-Token: cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN
Content-Type: application/json
user-agent: WeLink-desktop
Content-Length: 372
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "cycleSubConfID": "393439b00a2e11ecbe71d7c576a87729",
  "mediaTypes": "Video",
  "startTime": "2021-09-01 07:36",
  "length": 45,
```

```
"description": ""  
}
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 2164  
Connection: keep-alive  
http_proxy_id: 462abfcfa8a41c2c5450eb7648bf5ad2  
Server: api-gateway  
X-Request-Id: 7ba6f742610c03a64262b126fb336a5d
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:cnr1510zTBhrfUsymQ0srhW2RYS99r9G5SQoTLWN' -d '{"cycleSubConfID": "393439b00a2e11ecbe71d7c576a87729","mediaTypes": "Video","startTime": "2021-09-01 07:36","length": 45,"description": ""}' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/cyclesubconf?conferenceID=985325849'
```

4.2.9 Querying the Meeting List

Description

This API is used to query meetings that have not ended.

- Administrators can query all meetings in the enterprise. Common users can query only meetings created by themselves or meetings which they are invited to. If no query parameter is carried, ongoing meetings and meeting that have not started are queried by default.
- You can query only ongoing and upcoming meetings. For details about how to query historical meetings, see [Querying the Historical Meeting List](#).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-46 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 4-47 Parameters

Parameter	Mandatory	Type	Location	Description
userUUID	No	String	Query	UUID of a user. NOTE Only administrators have the permission to query the meeting list of other users in the enterprise. For a common user, this parameter is invalid. Common users can query only meetings of themselves.
offset	No	Integer	Query	Query offset. Default value: 0 .
limit	No	Integer	Query	Number of records to query. The default value is 20 and the maximum value is 500 .
queryAll	No	Boolean	Query	Whether to query meeting recordings of all users in the enterprise. Default value: false . <ul style="list-style-type: none"> true: Query meetings of all users. false: Query only meetings created by the administrator. NOTE This parameter is valid only for enterprise administrators.
searchKey	No	String	Query	Query condition. The meeting topic, user who schedules the meeting, and meeting ID can be used as the keywords. The value can contain 1 to 128 characters.

Parameter	Mandatory	Type	Location	Description
queryConfMode	No	String	Query	<p>Time range specified for query.</p> <ul style="list-style-type: none"> • ADAY: Records of the previous day will be queried. • AWEEK: Records of the previous week will be queried. • AMONTH: Records of the previous month will be queried. • ALL: All the records will be queried.
sortType	No	String	Query	<p>Sorting style of the query results.</p> <ul style="list-style-type: none"> • ASC_StartTIME: Records are sorted by start time in ascending order. • DSC_StartTIME: Records are sorted by start time in descending order.
X-Access-Token	Yes	String	Header	<p>Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID.</p>
X-Authz-Type	No	String	Header	<p>Whether the request is sent from a third-party portal.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>
X-Site-Id	No	String	Header	<p>ID of the HCS Online site where the authentication is performed.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>

Status Codes

Table 4-48 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-49 Response parameters

Parameter	Type	Description
offset	Integer	Query offset.
limit	Integer	Number of records on each page.
count	Integer	Total number of records.
data	Array of ConferenceInfo objects	Meeting list.

Example Request

```
GET /v1/mmc/management/conferences
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 2450
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 6fba0eff9f832b463580fb06c5b0ff9c
Server: api-gateway
X-Request-Id: ac9f75ec3c97c823f128526a924532b2
{
```

```
"data": [
  {
    "conferenceID": "914083136",
    "mediaTypes": "Data,Video,Voice",
    "subject": "user01's meeting",
    "size": 1,
    "timeZoneID": "56",
    "startTime": "2019-12-18 07:28",
    "endTime": "2019-12-18 09:28",
    "conferenceState": "Created",
    "accessNumber": "+991117",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
        "password": "*****"
      },
      {
        "conferenceRole": "general",
        "password": "*****"
      }
    ],
    "userUUID": "ff808081699b56cb0169be103500012b",
    "schedulerName": "user8002",
    "multiStreamFlag": 1,
    "conferenceType": 0,
    "confType": "IMMEDIATELY",
    "isAutoMute": 1,
    "isAutoRecord": 0,
    "chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083136/6a30b8b5a325105da031442627828e496f91021ece36405f",
    "guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083136/9505dc3349228b1ce0db8165590cc977bcff89785130fe0d",
    "recordType": 0,
    "recordAuxStream": 0,
    "confConfigInfo": {
      "isSendNotify": true,
      "isSendSms": true,
      "isAutoMute": true
    },
    "vmrFlag": 0,
    "scheduleVmr": false,
    "isHasRecordFile": false,
    "partAttendeeInfo": [
      {
        "phone": "+99111****815",
        "name": "user01",
        "role": 0,
        "isMute": 0,
        "type": "normal"
      }
    ],
    "terminlCount": 0,
    "normalCount": 1,
    "deptName": "wangyue",
    "confUUID": "050c7898216811eaa6958bf3bb9ac167"
  }
],
"offset": 0,
"limit": 20,
"count": 1
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' https://api.meeting.huaweicloud.com/v1/mmc/management/conferences
```

4.2.10 Querying Meeting Details

Description

This API is used to query details about a specific meeting.

- Administrators can query details about all meetings in the enterprise. Common users can query details about only meetings created by themselves or meetings which they are invited to.
- You can query only ongoing and upcoming meetings. For details about how to query details about a historical meeting, see [Viewing Historical Meeting Details](#).

Debugging

You can debug this API in [API Explorer](#).

URI

GET /v1/mmc/management/conferences/confDetail

Request Parameters

Table 4-50 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID. NOTE conferenceID returned when a meeting is created. The value is not the value of vmrConferenceID .
offset	No	Integer	Query	Query offset. Default value: 0 . This parameter is used to display PageParticipant data by page.
limit	No	Integer	Query	Number of records to query. The default value is 20 .

Parameter	Mandatory	Type	Location	Description
searchKey	No	String	Query	Query condition. The value can contain 1 to 128 characters.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Type	No	Integer	Header	Default value: 0 . <ul style="list-style-type: none"> • 0: Do not distinguish terminals and participants. • 1: Distinguish terminals and participants in pagination query. The query results are combined and returned. • 2: Query terminals and participants and return the query results separately.
X-Query-Type	No	Integer	Header	This parameter is valid only when X-Type is set to 2 . Default value: 0 <ul style="list-style-type: none"> • 0: Query participants. • 1: Query terminals.
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.

Parameter	Mandatory	Type	Location	Description
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-51 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-52 Response parameters

Parameter	Type	Description
conferenceData	ConferenceInfo object	Meeting details.
data	PageParticipant object	Participant list.

Table 4-53 PageParticipant data structure

Parameter	Type	Description
limit	Integer	Number of records on each page.
count	Integer	Total number of records.
offset	Integer	Query offset.

Parameter	Type	Description
data	Array of ParticipantInfo objects	Information about participants invited during meeting scheduling and invited by the host during the meeting. NOTE <ul style="list-style-type: none"> Information about participants who proactively join the meeting is not returned.

Table 4-54 ParticipantInfo data structure

Parameter	Type	Description
participantID	String	Participant ID.
name	String	Participant name.
subscriberID	String	Number of the participant. This field is reserved.
role	Integer	Participant role. <ul style="list-style-type: none"> 1: meeting host. 0: common participant.
state	String	User status. Currently, the value is fixed to MEETING .
address	String	Information about the meeting room where the terminal is located. This field is reserved.
attendeeType	String	Terminal type of the participant. <ul style="list-style-type: none"> normal: soft client. terminal: meeting room or hard terminal. outside: external participant. mobile: mobile number.

Parameter	Type	Description
accountId	String	Participant account. <ul style="list-style-type: none"> If account/password authentication is used, the value is a Huawei Cloud Meeting account. If app ID authentication is used, the value is an ID of a third-party user.
phone2	String	Reserved field.
phone3	String	Reserved field.
email	String	Email address.
sms	String	Mobile number for receiving SMS notifications.
deptName	String	Department name.
userUUID	String	UUID of the user who schedules the meeting.
appId	String	App ID. For details, see Requesting an App ID .
isAutoInvite	Integer	Whether to automatically invite participants when the meeting starts. The default value is defined in the enterprise-level configuration. <ul style="list-style-type: none"> 0: Do not automatically invite participants. 1: Automatically invite participants. <p>NOTE This parameter is valid only for meetings held using concurrent participant resources and a random ID.</p>

Parameter	Type	Description
isNotOverlayPidName	Boolean	Whether the participant name is not superimposed (applicable to the VDC scenario). <ul style="list-style-type: none"> • true: Site names are not superimposed. • false: Site names are superimposed.

Example Request

- Ordinary meeting

```
GET /v1/mmc/management/conferences/confDetail?conferenceID=914083136
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

- Recurring meeting

```
GET /v1/mmc/management/conferences/confDetail?conferenceID=969304019
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

- Ordinary meeting

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1811
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: acf5bd2cc7c7f90fe7ab6b95a8c753d5
Server: api-gateway
X-Request-Id: e2bc0a1429cb2fd52db88ba6fa2c44a8
```

```
{
  "conferenceData": {
    "conferenceID": "914083136",
    "mediaTypes": "Voice,Data,Video",
    "subject": "user01's meeting",
    "size": 1,
    "timeZoneID": "56",
    "startTime": "2019-12-18 07:28",
    "endTime": "2019-12-18 09:28",
    "conferenceState": "Created",
    "accessNumber": "+991117",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
```



```
    "password": "*****"
  },
  {
    "conferenceRole": "general",
    "password": "*****"
  }
],
"userUUID": "ff808081699b56cb0169be103500012b",
"scheduserName": "user8002",
"multiStreamFlag": 1,
"conferenceType": 0,
"confType": "IMMEDIATELY",
"isAutoMute": 1,
"isAutoRecord": 0,
"chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/
914083136/6a30b8b5a325105da031442627828e496f91021ece36405f",
"guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/
914083136/9505dc3349228b1ce0db8165590cc977bcff89785130fe0d",
"recordType": 0,
"recordAuxStream": 0,
"confConfigInfo": {
  "isSendNotify": true,
  "isSendSms": true,
  "isAutoMute": true
},
"vmrFlag": 0,
"scheduleVmr": false,
"isHasRecordFile": false,
"partAttendeeInfo": [
  {
    "phone": "+99111****815",
    "name": "user01",
    "type": "normal"
  }
],
"terminlCount": 0,
"normalCount": 1,
"deptName": "wangyue",
"confUUID": "050c7898216811eaa6958bf3bb9ac167"
},
"data": {
  "offset": 0,
  "limit": 20,
  "count": 1,
  "data": [
    {
      "participantID": "+991116003815",
      "name": "user01",
      "role": 0,
      "state": "MEETING",
      "attendeeType": "normal",
      "accountId": "user01"
    }
  ]
}
}
```

- Recurring meeting

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1811
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: acf5bd2cc7c7f90fe7ab6b95a8c753d5
Server: api-gateway
X-Request-Id: e2bc0a1429cb2fd52db88ba6fa2c44a8
```

```
{
  "conferenceData": {
    "conferenceID": "969304019",
    "mediaTypes": "Voice,Data,Video",
    "subject": "user01's meeting",
    "size": 1,
    "timeZoneID": "56",
    "startTime": "2019-12-18 07:28",
    "endTime": "2019-12-18 09:28",
    "accessNumber": "+991117",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
        "password": "*****"
      },
      {
        "conferenceRole": "general",
        "password": "*****"
      }
    ],
    "userUUID": "ff808081699b56cb0169be103500012b",
    "scheduserName": "user8002",
    "multiStreamFlag": 1,
    "conferenceType": 2,
    "confType": "CYCLE",
    "cycleParams": {
      "startDate": "2019-12-18",
      "cycle": "Day",
      "endDate": "2019-12-19",
      "interval": 1
    },
    "isAutoMute": 1,
    "isAutoRecord": 0,
    "chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083136/6a30b8b5a325105da031442627828e496f91021ece36405f",
    "guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083136/9505dc3349228b1ce0db8165590cc977bcff89785130fe0d",
    "recordType": 0,
    "recordAuxStream": 0,
    "confConfigInfo": {
      "isSendNotify": true,
      "isSendSms": true,
      "isAutoMute": true
    },
    "vmrFlag": 0,
    "scheduleVmr": false,
    "subConfs": [
      {
        "cycleSubConfID": "84bfd3816e744b81a02d76a5537a49dc",
        "conferenceID": "969304019",
        "mediaType": "Voice,Data,HDVideo",
        "startTime": "2019-12-18 07:28",
        "endTime": "2019-12-18 09:28",
        "isAutoRecord": 0,
        "confConfigInfo": {
          "callInRestriction": 0,
          "audienceCallInRestriction": 0,
          "allowGuestStartConf": true,
          "joinBeforeHostTime": 0,
          "enableWaitingRoom": true
        }
      },
      {
        "cycleSubConfID": "2e447d1e012c49d9b682ea6af73b6fa6",
        "conferenceID": "969304019",
        "mediaType": "Voice,Data,HDVideo",
        "startTime": "2019-12-18 07:28",

```

```
"endTime": "2019-12-18 09:28",
"isAutoRecord": 0,
"confConfigInfo": {
  "callInRestriction": 0,
  "audienceCallInRestriction": 0,
  "allowGuestStartConf": true,
  "joinBeforeHostTime": 0,
  "enableWaitingRoom": true
},
"isHasRecordFile": false,
"partAttendeeInfo": [
  {
    "phone": "+99111****815",
    "name": "user01",
    "type": "normal"
  }
],
"terminlCount": 0,
"normalCount": 1,
"deptName": "wangyue",
"confUUID": "050c7898216811eaa6958bf3bb9ac167"
},
"data": {
  "offset": 0,
  "limit": 20,
  "count": 1,
  "data": [
    {
      "participantID": "+991116003815",
      "name": "user01",
      "role": 0,
      "state": "MEETING",
      "attendeeType": "normal",
      "accountId": "user01"
    }
  ]
}
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/confDetail?conferenceID=914083136'
```

4.2.11 Querying the Region Where a Meeting Is Held

Description

This API is used to query the IP address and domain name of the region where the meeting is held.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-55 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/region/info
Transport Protocol	HTTPS

Request Parameters

Table 4-56 Parameter

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID. NOTE conferenceID returned when a meeting is created. The value is not the value of vmrConferenceID .

Status Codes

Table 4-57 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-58 Response parameters

Parameter	Type	Description
regionIP	String	Public IP address of the region where the meeting is held.
regionUrl	String	Public network domain name of the region where the meeting is held.

Example Request

```
GET /v1/mmc/management/conferences/region/info?conferenceID=914083136
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 2450
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 6fba0eff9f832b463580fb06c5b0ff9c
Server: api-gateway
X-Request-Id: ac9f75ec3c97c823f128526a924532b2

{
  "regionIP": "100.94.23.40",
  "regionUrl": "r1.meeting.huaweicloud.com"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/region/info?conferenceID=914083136'
```

4.2.12 Querying the Ongoing Meeting List

Description

This API is used to query the list of ongoing meetings. Administrators can query all ongoing meetings in the enterprise. Common users can query only ongoing meetings created by themselves or those they are invited to. If no query parameter is not specified, ongoing meetings within the permissions scope are queried by default. Meeting records are sorted by start time in ascending order.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-59 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/online
Transport Protocol	HTTPS

Request Parameters

Table 4-60 Parameters

Parameter	Mandatory	Type	Location	Description
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
offset	No	Integer	Query	Query offset. Default value: 0 .
limit	No	Integer	Query	Number of records to query. The default value is 20 and the maximum value is 500 .

Parameter	Mandatory	Type	Location	Description
queryAll	No	Boolean	Query	<p>Whether to query meeting records of all users in your enterprise. Default value: false.</p> <ul style="list-style-type: none"> • true: Query ongoing meetings of all users. • false: Query only ongoing meetings of the administrator. <p>NOTE This parameter is valid only for enterprise administrators.</p>
searchKey	No	String	Query	<p>Query condition. The meeting topic, user who schedules the meeting, and meeting ID can be used as the keywords. The value can contain 1 to 128 characters.</p>
X-Access-Token	Yes	String	Header	<p>Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID.</p>
X-Authorization-Type	No	String	Header	<p>Whether the request is sent from a third-party portal.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>
X-Site-Id	No	String	Header	<p>ID of the HCS Online site where the authentication is performed.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>

Status Codes

Table 4-61 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-62 Response parameters

Parameter	Type	Description
offset	Integer	Query offset.
limit	Integer	Number of records on each page.
count	Integer	Total number of records.
data	Array of ConferenceInfo objects	Meeting list.

Example Request

```
GET /v1/mmc/management/conferences/online
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1410
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: afebdbf50a938b965304c57d5c15676a
Server: api-gateway
X-Request-Id: be9dc6ff2eba30835ca2a5dfe2c4914d

{
  "data": [
    {
```



```
"conferenceID": "914083136",
"mediaTypes": "Voice,Data,Video",
"subject": "user01's meeting",
"size": 1,
"timeZoneID": "56",
"startTime": "2019-12-18 07:28",
"endTime": "2019-12-18 09:28",
"conferenceState": "Created",
"accessNumber": "+991117",
"language": "zh-CN",
"passwordEntry": [
  {
    "conferenceRole": "chair",
    "password": "*****"
  },
  {
    "conferenceRole": "general",
    "password": "*****"
  }
],
"userUUID": "ff808081699b56cb0169be103500012b",
"scheduserName": "user8002",
"multiStreamFlag": 1,
"conferenceType": 0,
"confType": "IMMEDIATELY",
"isAutoMute": 1,
"isAutoRecord": 0,
"chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083136/6a30b8b5a325105da031442627828e496f91021ece36405f",
"guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083136/9505dc3349228b1ce0db8165590cc977bcff89785130fe0d",
"recordType": 0,
"recordAuxStream": 0,
"confConfigInfo": {
  "prolongLength": 15,
  "isGuestFreePwd": false,
  "isSendNotify": true,
  "isSendSms": true,
  "isAutoMute": true,
  "isSendCalendar": true,
  "callInRestriction": 0,
  "allowGuestStartConf": true,
  "isHardTerminalAutoMute": true,
  "enableWaitingRoom": true
},
"vmrFlag": 0,
"scheduleVmr": false,
"isHasRecordFile": false,
"partAttendeeInfo": [
  {
    "phone": "+99111****815",
    "name": "user01",
    "type": "normal"
  }
],
"terminlCount": 0,
"normalCount": 1,
"deptName": "wangyue",
"confUUID": "050c7898216811eaa6958bf3bb9ac167"
}
],
"offset": 0,
"limit": 20,
"count": 1
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/online
```

4.2.13 Querying Ongoing Meeting Details

Description

This API is used to query details about an ongoing meeting. Administrators can query details about all ongoing meetings in the enterprise. Common users can query details about only the ongoing meetings created by themselves or those they are invited to.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-63 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/online/confDetail
Transport Protocol	HTTPS

Request Parameters

Table 4-64 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID. NOTE conferenceID returned when a meeting is created. The value is not the value of vmrConferenceID .

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. Default value: 0 . This parameter is used to display PageParticipant data by page.
limit	No	Integer	Query	Number of records to query. Default value: 20 .
searchKey	No	String	Query	Query condition. The value can contain 1 to 128 characters.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Type	No	Integer	Header	Default value: 0 . <ul style="list-style-type: none"> • 0: Do not distinguish terminals and participants. • 1: Distinguish terminals and participants in pagination query. The query results are combined and returned. • 2: Query terminals and participants and return the query results separately.

Parameter	Mandatory	Type	Location	Description
X-Query-Type	No	Integer	Header	This parameter is valid only when X-Type is set to 2 . Default value: 0 . <ul style="list-style-type: none"> 0: Query participants. 1: Query terminals.
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-65 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-66 Response parameters

Parameter	Type	Description
conferenceData	ConferenceInfo object	Meeting details.

Parameter	Type	Description
data	PageParticipant object	Information about invited participants, including those invited during meeting scheduling. NOTE <ul style="list-style-type: none"> Information about participants who proactively join the meeting is not returned.

Example Request

```
GET /v1/mmc/management/conferences/online/confDetail?conferenceID=914083136
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjJC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1394
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 1e4af24ea29c6641dd73e3a6a027f007
Server: api-gateway
X-Request-Id: 696def7842d59349fd7e33319dce3e21

{
  "conferenceData": {
    "conferenceID": "914083136",
    "mediaTypes": "Voice,Data,Video",
    "subject": "user01's meeting",
    "size": 1,
    "timeZoneID": "56",
    "startTime": "2019-12-18 07:28",
    "endTime": "2019-12-18 09:28",
    "conferenceState": "Created",
    "accessNumber": "+991117",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
        "password": "*****"
      },
      {
        "conferenceRole": "general",
        "password": "*****"
      }
    ]
  },
  "userUUID": "ff808081699b56cb0169be103500012b",
  "scheduserName": "user8002",
  "multiStreamFlag": 1,
  "conferenceType": 0,
  "confType": "IMMEDIATELY",
  "isAutoMute": 1,
  "isAutoRecord": 0,
  "chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/
```

```
914083136/6a30b8b5a325105da031442627828e496f91021ece36405f",
  "guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/
914083136/9505dc3349228b1ce0db8165590cc977bcff89785130fe0d",
  "recordType": 0,
  "recordAuxStream": 0,
  "confConfigInfo": {
    "prolongLength": 15,
    "isGuestFreePwd": false,
    "isSendNotify": true,
    "isSendSms": true,
    "isAutoMute": true,
    "isSendCalendar": true,
    "callInRestriction": 0,
    "allowGuestStartConf": true,
    "isHardTerminalAutoMute": true,
    "enableWaitingRoom": true
  },
  "vmrFlag": 0,
  "scheduleVmr": false,
  "isHasRecordFile": false,
  "partAttendeeInfo": [
    {
      "phone": "+99111****815",
      "name": "user01",
      "type": "normal"
    }
  ],
  "terminlCount": 0,
  "normalCount": 1,
  "deptName": "wangyue",
  "confUUID": "050c7898216811eaa6958bf3bb9ac167"
},
"data": {
  "offset": 0,
  "limit": 20,
  "count": 1,
  "data": [
    {
      "participantID": "+991116003815",
      "name": "user01",
      "role": 0,
      "state": "MEETING",
      "attendeeType": "normal",
      "accountId": "user01"
    }
  ]
}
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjJC' 'https://
api.meeting.huaweicloud.com/v1/mmc/management/conferences/online/confDetail?
conferenceID=914083136'
```

4.2.14 Querying the Recording File List

Description

This API is used to query the meeting recording list. The administrator can query all recordings in the enterprise. Common users can query only the recordings of meetings created by themselves. If no query parameter is carried, recording files within the permissions scope are queried by default.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-67 Prototype

Request Method	GET
Request Address	/v1/mmc/management/record/files
Transport Protocol	HTTPS

Request Parameters

Table 4-68 Parameters

Parameter	Mandatory	Type	Location	Description
userUUID	No	String	Query	UUID of a user. NOTE Only administrators have the permission to query the recording list of other users in the enterprise. For a common user, this parameter is invalid. Common users can query only recordings of themselves.
offset	No	Integer	Query	Query offset. Default value: 0 .
limit	No	Integer	Query	Number of records to query. The default value is 20 and the maximum value is 500 .

Parameter	Mandatory	Type	Location	Description
queryAll	No	Boolean	Query	Whether to query meeting recordings of all users in the enterprise. <ul style="list-style-type: none"> • true: Query meeting recordings of all users. • false: Query only meeting recordings of the administrator. NOTE This parameter is valid only for enterprise administrators.
searchKey	No	String	Query	Query condition. The meeting topic, user who schedules the meeting, and meeting ID can be used as the keywords.
startDate	Yes	long	Query	Query start timestamp, in milliseconds.
endDate	Yes	long	Query	Query end timestamp, in milliseconds.
sortType	No	String	Query	Sorting style of the query results. <ul style="list-style-type: none"> • ASC_StartTIME: Records are sorted by start time in ascending order. • DSC_StartTIME: Records are sorted by start time in descending order.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-69 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-70 Response parameters

Parameter	Type	Description
offset	Integer	Query offset.
limit	Integer	Number of records on each page.
count	Integer	Total number of records.
data	Array of RecordFileInfo objects	Recording file list.

Table 4-71 RecordFileInfo data structure

Parameter	Type	Description
confUUID	String	Meeting UUID.
confID	String	Meeting ID.
url	String[]	Recording playback URL.
rcdTime	Integer	Recording duration, in seconds.
rcdSize	Integer	Recording file size, in MB.
subject	String	Meeting topic.
scheduser Name	String	Name of the meeting scheduler.

Parameter	Type	Description
startTime	String	Meeting start time.
isDecodeFinish	Boolean	Whether the recording file is transcoded.
decodeEndTime	long	Estimated time when transcoding of a recording file will complete.
available	Boolean	Whether the recording file can be played.
recordAuthType	Integer	Recording playback authentication mode. This parameter is valid only when recordType is set to 2 or 3 . <ul style="list-style-type: none"> 0: Users who obtain the link of the recording can watch or download the recording. 1: Only enterprise users can watch or download the recording. 2: Only meeting participants can view and download the recording.

Example Request

```
GET /v1/mmc/management/record/files?startDate=1574092800000&endDate=1576771199999
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 683
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 25b89efb63970d80e715503650157098
Server: api-gateway
X-Request-Id: a9af536f02e45c516513a8248bfe04c3

{
  "offset": 0,
  "limit": 20,
  "count": 1,
  "data": [
    {
      "confUUID": "51adf610220411eaaae03f22d33cc26b",
      "confID": "912049654",
      "url": [
        "https://114.116.237.2/rse/rse/html/play/Mediaxplay.html?rseid=00030&recordId=000301fa-0512-412f-b363-cb9f76063628&token=24e4f6d9850a42365783c88ceb36701bb87f5393a595af82&confID=51adf610220411ea"
      ]
    }
  ]
}
```

```
aae03f22d33cc26b&isSecure=true"
  ],
  "rcdTime": 71,
  "rcdSize": 0,
  "subject": "user8002's meeting",
  "scheduserName": "user8002",
  "startTime": "2019-12-19 02:07",
  "isDecodeFinish": false,
  "decodeEndTime": 1576721412885,
  "available": true,
  "recordAuthType": 2
}
]
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/record/files?startDate=1574092800000&endDate=1576771199999'
```

4.2.15 Querying Recording File Details

Description

This API is used to query details about a meeting recording.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-72 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/record/files
Transport Protocol	HTTPS

Request Parameters

Table 4-73 Parameters

Parameter	Mandatory	Type	Location	Description
confUUID	Yes	String	Query	UUID of a meeting, which can be obtained by calling the API for Querying the Recording File List .
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-74 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.

HTTP Status Code	Description
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-75 Response parameters

Parameter	Type	Description
confUUID	String	Meeting UUID.
confID	String	Meeting ID.
url	String[]	Recording playback URL.
rcdTime	Integer	Recording duration, in seconds.
rcdSize	Integer	Recording file size, in MB.
subject	String	Meeting topic.
scheduser Name	String	Name of the meeting scheduler.
startTime	String	Meeting start time.
isDecode Finish	Boolean	Whether the recording file is transcoded.
decodeEn dTime	long	Estimated time when transcoding of a recording file will complete.
available	Boolean	Whether the recording file can be played.
recordAut hType	Integer	Authentication mode for watching or downloading the recording. <ul style="list-style-type: none">• 0: Users who obtain the link of the recording can watch or download the recording.• 1: Only enterprise users can watch or download the recording.• 2: Only meeting participants can view and download the recording.

Example Request

```
GET /v1/mmc/management/conferences/record/files?confUUID=51adf610220411eaaae03f22d33cc26b
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjJC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 505
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 4556e88832e5990723d1712395f5bee8
Server: api-gateway
X-Request-Id: 629891c82bb852d8796e2f6acc74721e

{
  "confUUID": "51adf610220411eaaae03f22d33cc26b",
  "confID": "912049654",
  "url": [
    "https://114.116.237.2/rse/rse/html/play/Mediaxplay.html?rseid=00030&recordId=000301fa-0512-412f-
b363-
cb9f76063628&token=24e4f6d9850a42365783c88ceb36701bb87f5393a595af82&confID=51adf610220411ea
aae03f22d33cc26b&isSecure=true"
  ],
  "rcdTime": 71,
  "rcdSize": 0,
  "subject": "user8002's meeting",
  "scheduserName": "user8002",
  "startTime": "2019-12-19 02:07",
  "isDecodeFinish": true,
  "decodeEndTime": 1576721412885,
  "available": true,
  "recordAuthType": 2
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjJC' 'https://
api.meeting.huaweicloud.com/v1/mmc/management/conferences/record/files?
confUUID=51adf610220411eaaae03f22d33cc26b'
```

4.2.16 Querying Download Links of Recording Files

Description

This API is used to query the download link of a meeting recording.

 NOTE

- Only enterprise administrators can query download links of recording files.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-76 Prototype

Request Method	GET
Request Address	/v1/mmc/management/record/downloadurls
Transport Protocol	HTTPS

Request Parameters

Table 4-77 Parameters

Parameter	Mandatory	Type	Location	Description
confUUID	Yes	String	Query	UUID of a meeting, which can be obtained by calling the API for Querying the Recording File List .
offset	No	Integer	Query	Query offset. Default value: 0 .
limit	No	Integer	Query	Number of records to query. The default value is 20 and the maximum value is 500 .
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Authzation-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-78 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-79 Parameter

Parameter	Type	Description
recordUrls	Array of DownloadInfo objects	Links for downloading the recording files.

Table 4-80 DownloadInfo data structure

Parameter	Type	Description
confUuid	String	Meeting UUID.
urls	Array of UrlInfo objects	Download link details.

Table 4-81 UrlInfo data structure

Parameter	Type	Description
token	String	Token used for authentication during download. (A token is valid within one hour and expires immediately after being used.)
fileType	String	File type. <ul style="list-style-type: none"> • Aux: presentation (720p video of shared screens in the meeting) • Hd: high definition (1080p or 720 participant video in the meeting. The resolution is the same as that of the video during the meeting.) • Sd: standard definition (combination of the participant video and presentation in the meeting. The participant video is displayed in a large screen, and the presentation is displayed in a small screen in the lower right corner. The resolution is 4CIF.) <p>NOTE If the recording duration of a single meeting exceeds 3 hours, multiple recording files are generated, each with its own download link. (In earlier versions, recording files larger than 1 GB are split.)</p>
url	String	File download URL, which contains a maximum of 1000 characters.

Example Request

```
GET /v1/mmc/management/record/downloadurls?confUUID=51adf610220411eaaae03f22d33cc26b
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 505
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 4556e88832e5990723d1712395f5bee8
Server: api-gateway
X-Request-Id: 629891c82bb852d8796e2f6acc74721e

{
  "recordUrls": [
    {
      "confUuid": "ef67f6ada67e11eba6374db4b9a61d2c",
      "urls": [
        {
          "token": "f8fe906eaa6d690ef72bc831df54ffd9fc906412aefd329ace96d100cf1bc4be",
          "fileType": "Aux",
          "url": "https://100.85.230.37/download/typeThree/video/resource/00037/00037ed2-351a-4741-8ce6-a2078f21ba6b/videoAux/0_0.mp4"
        },
        {
          "token": "ad8a6f6e009d643ca21f8be306e9e2cadd726360236f07bd176c1b85423b7136",
          "fileType": "Hd",
          "url": "https://100.85.230.37/download/typeThree/video/resource/00037/00037ed2-351a-4741-8ce6-a2078f21ba6b/videoHD/0_0.mp4"
        },
        {
          "token": "fe7a59c69e3f97e831c83d55193a061e5e33e019f4704e5eb441c7f1fa629ad2",
          "fileType": "Sd",
          "url": "https://100.85.230.37/download/typeThree/video/resource/00037/00037ed2-351a-4741-8ce6-a2078f21ba6b/videoSD/0_0.mp4"
        },
        {
          "token": "38e6b3fe7f7c62dd2141a408f4f64b911d1b58a5e04a4f6e0cfd2602181a8ad3",
          "fileType": "Aux",
          "url": "https://100.85.230.37/download/typeThree/video/resource/00037/00037ed2-351a-4741-8ce6-a2078f21ba6b/videoAux/0_1.mp4"
        },
        {
          "token": "843731642aba1ebb720195a7c44f3f1e32ab409d29b2ecd1c58f30ee269f6da6",
          "fileType": "Hd",
          "url": "https://100.85.230.37/download/typeThree/video/resource/00037/00037ed2-351a-4741-8ce6-a2078f21ba6b/videoHD/0_1.mp4"
        },
        {
          "token": "9fd3471e9dc047c3c345308f0cbed005f227bf48aa47875c7fe752c5a817cbd9",
          "fileType": "Sd",
          "url": "https://100.85.230.37/download/typeThree/video/resource/00037/00037ed2-351a-4741-8ce6-a2078f21ba6b/videoSD/0_1.mp4"
        }
      ]
    }
  ]
}
```

Downloading Recording Files

After obtaining the download link of a recording file and the download authentication token, you can use the following sample code (Java) to download the recording file:

```
/**
 * Downloads a recording file.
```

```
*
* @param downloadUrl Link for downloading the recording file
* @param localPath Local storage path
* @param token Download authentication token
*/
public static void httpDownload(String downloadUrl, String localPath, String token) {
    int bytesRead;
    try {
        URL url = new URL(downloadUrl);
        HttpURLConnection connection = (HttpURLConnection) url.openConnection();
        // The request header carries the download authentication token.
        connection.setRequestProperty("Authorization", token);
        connection.setHostnameVerifier(new HostnameVerifier() {
            @Override
            public Boolean verify(String hostname, SSLSession sslSession) {
                return true;
            }
        });
        TrustManager[] trustManagers = new TrustManager[]{
            new X509TrustManager() {
                public void checkClientTrusted(X509Certificate[] x509Certificates, String s) throws
CertificateException {
                }

                public void checkServerTrusted(X509Certificate[] x509Certificates, String s) throws
CertificateException {
                }

                public X509Certificate[] getAcceptedIssuers() {
                    return null;
                }
            }
        };
        SSLContext ctx = SSLContext.getInstance("TLS");
        ctx.init(null, trustManagers, null);
        connection.setSSLSocketFactory(ctx.getSocketFactory());
        // Obtains the file stream.
        InputStream inStream = connection.getInputStream();
        // Saves the file stream to a local path.
        FileOutputStream fs = new FileOutputStream(localPath);
        byte[] buffer = new byte[1024];
        while ((bytesRead = inStream.read(buffer)) != -1) {
            fs.write(buffer, 0, bytesRead);
        }
        inStream.close();
        fs.close();
    } catch (IOException | KeyManagementException | NoSuchAlgorithmException e) {
        e.printStackTrace();
    }
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHofrTsQjJC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/record/downloadurls?confUUID=51adf610220411eaaae03f22d33cc26b'
```

4.2.17 Deleting Recording Files in Batches

Description

This API is used to delete meeting recordings in batches.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-82 Prototype

Request Method	DELETE
Request Address	/v1/mmc/management/record/files
Transport Protocol	HTTPS

Request Parameters

Table 4-83 Parameters

Parameter	Mandatory	Type	Location	Description
confUUIDs	Yes	String	Query	List of meeting UUIDs, which are separated by commas (,).
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.

Parameter	Mandatory	Type	Location	Description
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-84 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/mmc/management/record/files?confUUIIDs=51adf610220411eaaae03f22d33cc26b
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 91e7ab61cb9d601d27d7d6d6490e7eee
Server: api-gateway
X-Request-Id: 0f01f95bf9c4b4235226d93c19f42396
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' https://api.meeting.huaweicloud.com/v1/mmc/management/record/files?confUUIDs=51adf610220411eaaae03f22d33cc26b
```

4.2.18 Querying the Historical Meeting List

Description

This API is used to query meetings that have ended. Administrators can query all historical meetings in the enterprise. Common users can query only historical meetings created by themselves or those they are invited to. If no query parameter is not specified, historical meetings within the permissions scope are queried by default.

NOTE

- If a common user used the meeting ID or link to join the meeting, but the user was not invited by the scheduler before the meeting starts or by the host during the meeting, the user cannot be queried in the participant list of the historical meeting.
- If a meeting was held and ended for multiple times, multiple historical meetings (with the same meeting ID but different meeting UUIDs) were generated.
- Historical meeting records are retained for six months by default and for up to 12 months. Administrators can change the retention period on the **Meeting Settings** page.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-85 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/history
Transport Protocol	HTTPS

Request Parameters

Table 4-86 Parameters

Parameter	Mandatory	Type	Location	Description
userUUID	No	string	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
offset	No	Integer	Query	Query offset. Default value: 0 .
limit	No	Integer	Query	Number of records to query. The default value is 20 and the maximum value is 500 .
searchKey	No	string	Query	Query condition. The meeting topic, user who schedules the meeting, and meeting ID can be used as the keywords.
queryAll	No	Boolean	Query	Whether to query historical meetings of all users in the enterprise. <ul style="list-style-type: none"> • true: Query historical meetings of all users. • false: Query only historical meetings of the administrator. NOTE This parameter is valid only for enterprise administrators.
startDate	Yes	long	Query	Query start timestamp, in milliseconds.
endDate	Yes	long	Query	Query end timestamp, in milliseconds.

Parameter	Mandatory	Type	Location	Description
sortType	No	String	Query	<p>Sorting style of the query results.</p> <ul style="list-style-type: none"> • ASC_StartTIME: Records are sorted by start time in ascending order. • DSC_StartTIME: Records are sorted by start time in descending order. • ASC_RecordTYPE: Records are sorted by start time in ascending order and meetings with recording files are displayed on the top of the list. • DSC_RecordTYPE: Records are sorted by start time in descending order and meetings with recording files are displayed on the top of the list.
X-Access-Token	Yes	String	Header	<p>Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID.</p>
X-Authorization-Type	No	String	Header	<p>Whether the request is sent from a third-party portal.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>
X-Site-Id	No	String	Header	<p>ID of the HCS Online site where the authentication is performed.</p> <p>NOTE This parameter will be discarded. Do not use it.</p>

Status Codes

Table 4-87 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.

HTTP Status Code	Description
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-88 Response parameters

Parameter	Type	Description
offset	Integer	Query offset.
limit	Integer	Number of records on each page.
count	Integer	Total number of records.
data	Array of ConferenceInfo objects	Meeting list.

Example Request

```
GET /v1/mmc/management/conferences/history?startDate=1574092800000&endDate=1574179199999
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 2420
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 43bee1151af8115d90358994a7c14cfc
Server: api-gateway
X-Request-Id: 53c883710d86aebf01e92ce7bcea1984
```

```
{
  "data": [
    {
      "conferenceID": "914083388",
      "mediaTypes": "Voice,Video,Data",
      "subject": "user8001's test meeting",
      "size": 1,
      "timeZoneID": "56",
      "startTime": "2019-11-18 23:31",
      "endTime": "2019-11-18 23:32",
```

```
"conferenceState": "Destroyed",
"accessNumber": "+991117",
"language": "zh-CN",
"passwordEntry": [
  {
    "conferenceRole": "general",
    "password": "*****"
  }
],
"userUUID": "ff8080816a024f05016a4e2342480a60",
"scheduserName": "test008",
"multiStreamFlag": 1,
"conferenceType": 0,
"confType": "IMMEDIATELY",
"isAutoMute": 1,
"isAutoRecord": 0,
"guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083388/1f215673e636444b55845ee1d1af630e8d8ca0235e491972",
"recordType": 0,
"recordAuxStream": 0,
"recordAuthType": 0,
"confConfigInfo": {
  "prolongLength": 15,
  "isGuestFreePwd": false,
  "isSendNotify": true,
  "isSendSms": true,
  "isAutoMute": true,
  "isSendCalendar": true,
  "callInRestriction": 0,
  "allowGuestStartConf": true,
  "isHardTerminalAutoMute": true,
  "enableWaitingRoom": true
},
"vmrFlag": 0,
"scheduleVmr": false,
"isHasRecordFile": false,
"partAttendeeInfo": [
  {
    "phone": "+99111****380",
    "name": "user8002",
    "type": "normal"
  }
],
"terminalCount": 0,
"normalCount": 1,
"deptName": "wangyue",
"confUUID": "9a0fa6d10a5b11eaae5e191763c22c0e"
},
{
  "conferenceID": "914088193",
  "mediaTypes": "Voice,Video,Data",
  "subject": "user8001's meeting",
  "size": 1,
  "timeZoneID": "56",
  "startTime": "2019-11-18 23:31",
  "endTime": "2019-11-18 23:31",
  "conferenceState": "Destroyed",
  "accessNumber": "+991117",
  "language": "zh-CN",
  "passwordEntry": [
    {
      "conferenceRole": "general",
      "password": "*****"
    }
  ]
},
"userUUID": "ff8080816a024f05016a4e2342480a60",
"scheduserName": "test008",
"multiStreamFlag": 1,
"conferenceType": 0,
```

```
"confType": "IMMEDIATELY",
"isAutoMute": 1,
"isAutoRecord": 0,
"guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/
914088193/5b00be0e5121eb2f6f865162a4bc7f1f7f05d37cd802dded",
"recordType": 2,
"recordAuxStream": 0,
"recordAuthType": 0,
"confConfigInfo": {
  "prolongLength": 15,
  "isGuestFreePwd": false,
  "isSendNotify": true,
  "isSendSms": true,
  "isAutoMute": true,
  "isSendCalendar": true,
  "callInRestriction": 0,
  "allowGuestStartConf": true,
  "isHardTerminalAutoMute": true,
  "enableWaitingRoom": true
},
"vmrFlag": 0,
"scheduleVmr": false,
"isHasRecordFile": false,
"partAttendeeInfo": [
  {
    "phone": "+991116004380",
    "name": "user8002",
    "type": "normal"
  }
],
"terminlCount": 0,
"normalCount": 1,
"deptName": "wangyue",
"confUUID": "7c421ac60a5b11eaa5e83b30677ab12b"
},
{
  "conferenceID": "914085971",
  "mediaTypes": "Voice,Video,Data",
  "subject": "user8001's meeting",
  "size": 1,
  "timeZoneID": "56",
  "startTime": "2019-11-18 23:30",
  "endTime": "2019-11-18 23:31",
  "conferenceState": "Destroyed",
  "accessNumber": "+991117",
  "language": "zh-CN",
  "passwordEntry": [
    {
      "conferenceRole": "general",
      "password": "*****"
    }
  ],
  "userUUID": "ff8080816a024f05016a4e2342480a60",
  "scheduserName": "test008",
  "multiStreamFlag": 1,
  "conferenceType": 0,
  "confType": "IMMEDIATELY",
  "isAutoMute": 1,
  "isAutoRecord": 0,
  "guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/
914085971/40300b325ad71ad1ff2c1dbdda1250328ccd8ec9ff45bd03",
  "recordType": 2,
  "recordAuxStream": 0,
  "recordAuthType": 0,
  "confConfigInfo": {
    "prolongLength": 15,
    "isGuestFreePwd": false,
    "isSendNotify": true,
    "isSendSms": true,
```

```
    "isAutoMute": true,
    "isSendCalendar": true,
    "callInRestriction": 0,
    "allowGuestStartConf": true,
    "isHardTerminalAutoMute": true,
    "enableWaitingRoom": true
  },
  "vmrFlag": 0,
  "scheduleVmr": false,
  "isHasRecordFile": false,
  "partAttendeeInfo": [
    {
      "phone": "+99111****380",
      "name": "user8002",
      "type": "normal"
    }
  ],
  "terminlCount": 0,
  "normalCount": 1,
  "deptName": "wangyue",
  "confUUID": "6d2a6cd90a5b11eaa5e8f14973e50d03"
}
],
"offset": 0,
"limit": 20,
"count": 3
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KQWUZ1DHoFrTsQjjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/history?startDate=1574092800000&endDate=1574179199999'
```

4.2.19 Viewing Historical Meeting Details

Description

This API is used to query details about a historical meeting. Administrators can query details about all historical meetings in the enterprise. Common users can query details about only historical meetings created by themselves or those they are invited to.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-89 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/mmc/management/conferences/history/confDetail
Transport Protocol	HTTPS

Request Parameters

Table 4-90 Parameters

Parameter	Mandatory	Type	Location	Description
confUUID	Yes	String	Query	Meeting UUID.
offset	No	Integer	Query	Query offset. Default value: 0 . This parameter is used to display PageParticipant data by page.
limit	No	Integer	Query	Number of records to query. Default value: 20 .
searchKey	No	String	Query	Query condition. The meeting topic, user who schedules the meeting, and meeting ID can be used as the keywords. The value can contain 1 to 128 characters.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Type	No	Integer	Header	Default value: 0 . <ul style="list-style-type: none"> 0: Do not distinguish meeting rooms and participants. 1: Distinguish meeting rooms and participants in pagination query. The query results are combined and returned. 2: Query meeting rooms and participants and return the query results separately.

Parameter	Mandatory	Type	Location	Description
X-Query-Type	No	Integer	Header	This parameter is valid only when X-Type is set to 2 . Default value: 0 . <ul style="list-style-type: none"> 0: Query participants. 1: Query terminals.
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.

Status Codes

Table 4-91 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-92 Response parameters

Parameter	Type	Description
conferenceData	ConferenceInfo object	Meeting details.

Parameter	Type	Description
data	PageParticipant object	Information about invited participants, including those invited during meeting scheduling. NOTE <ul style="list-style-type: none"> Information about participants who proactively join the meeting is not returned.

Example Request

```
GET /v1/mmc/management/conferences/history/confDetail?
confUUID=9a0fa6d10a5b11eaae5e191763c22c0e
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1816
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: b74350ba75078e9ad1ec3610f2ec5550
Server: api-gateway
X-Request-Id: e71ece483fad1f909dd45c796af8360

{
  "conferenceData": {
    "conferenceID": "914083388",
    "mediaTypes": "Data,Voice,Video",
    "subject": "user8001's test meeting",
    "size": 1,
    "timeZoneID": "56",
    "startTime": "2019-11-18 23:31",
    "endTime": "2019-11-18 23:32",
    "accessNumber": "+991117",
    "language": "zh-CN",
    "passwordEntry": [
      {
        "conferenceRole": "chair",
        "password": "*****"
      },
      {
        "conferenceRole": "general",
        "password": "*****"
      }
    ],
    "userUUID": "ff8080816a024f05016a4e2342480a60",
    "schedulerName": "test008",
    "multiStreamFlag": 1,
    "conferenceType": 0,
  }
}
```

```
"confType": "IMMEDIATELY",
  "isAutoMute": 1,
  "isAutoRecord": 0,
  "chairJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083388/69a5b84756d19dc9a222805819ec68945f8d86369d966d43",
  "guestJoinUri": "https://c.meeting.huaweicloud.com/#/j/914083388/1f215673e636444b55845ee1d1af630e8d8ca0235e491972",
  "recordType": 0,
  "recordAuxStream": 0,
  "recordAuthType": 0,
  "confConfigInfo": {
    "prolongLength": 15,
    "isGuestFreePwd": false,
    "isSendNotify": true,
    "isSendSms": true,
    "isAutoMute": true,
    "isSendCalendar": true,
    "callInRestriction": 0,
    "allowGuestStartConf": true,
    "isHardTerminalAutoMute": true,
    "enableWaitingRoom": true
  },
  "vmrFlag": 0,
  "scheduleVmr": false,
  "isHasRecordFile": false,
  "partAttendeeInfo": [
    {
      "phone": "+99111****380",
      "name": "user8002",
      "type": "normal"
    }
  ],
  "terminlCount": 0,
  "normalCount": 1,
  "deptName": "wangyue"
},
"data": {
  "offset": 0,
  "limit": 20,
  "count": 1,
  "data": [
    {
      "participantID": "+991116004380",
      "name": "user8002",
      "role": 1,
      "state": "MEETING",
      "attendeeType": "normal",
      "accountId": "user8002@corpnew",
      "sms": "+8612****5965",
      "deptName": "wangyue",
      "userUUID": "ff808081699b56cb0169be103500012b"
    }
  ]
}
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjJC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/history/confDetail?confUUID=9a0fa6d10a5b11eaae5e191763c22c0e'
```


4.2.20 Querying Meeting Control Records of a Historical Meeting

Description

This API is used to query meeting control records of a historical meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-93 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/history/confCtlRecord
Transport Protocol	HTTPS

Request Parameters

Table 4-94 Parameters

Parameter	Mandatory	Type	Location	Description
confUUID	Yes	String	Query	Meeting UUID.
offset	No	Integer	Query	Query offset. Default value: 0 .
limit	No	Integer	Query	Number of records to query. The default value is 20 and the maximum value is 500 .
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Authz-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.
Accept-Language	No	String	Header	Language. Default value: zh-CN . <ul style="list-style-type: none"> • zh-CN: simplified Chinese. • en-US: English (U.S.).

Status Codes

Table 4-95 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-96 Response parameters

Parameter	Type	Description
offset	Integer	Query offset.
limit	Integer	Number of records on each page.
count	Integer	Total number of records.
data	Array of data objects	List of meeting control operations.

Table 4-97 Data structure of data

Parameter	Type	Description
operateTime	long	UTC time when an operation was performed, in milliseconds.
operateSource	String	Operation source.
operator	String	Operator.
operateCode	String	Operation description.
operationObject	String	Operation object.
operateResult	String	Operation result.
detail	String	Operation details.

Example Request

```
GET /v1/mmc/management/conferences/history/confCtlRecord?
confUUID=9a0fa6d10a5b11eaae5e191763c22c0e
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 472
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 2f3aa1fe64f6784b1eb6f75a67ef2b9d
Server: api-gateway
X-Request-Id: ba03d2ae3b805d8c545c83494c862b48

{
  "data": [
    {
      "operateTime": 1574119913464,
      "operateSource": "MCU",
      "operator": "MCU",
      "operateCode": "Enable voice activation.",
      "operateResult": "Successful"
    },
    {
      "operateTime": 1574119917864,
      "operateSource": "Conference System",
      "operator": "Conference System",
      "operateCode": "Call participants.",
      "operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
      "operateResult": "Successful"
    }
  ]
}
```

```
},
{
  "operateTime": 1574119917870,
  "operateSource": "MCU",
  "operator": "MCU",
  "operateCode": "Mute participants.",
  "operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119918064,
  "operateSource": "MCU",
  "operator": "MCU",
  "operateCode": "Unmute participants.",
  "operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119917889,
  "operateSource": "Conference System",
  "operator": "Conference System",
  "operateCode": "Set a participant as the host.",
  "operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119932913,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Add participants.",
  "operationObject": "*****905",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119935460,
  "operateSource": "Conference System",
  "operator": "Conference System",
  "operateCode": "Call participants.",
  "operationObject": "a5db36ce0a5b11eab313a52e57f34bda",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119935465,
  "operateSource": "MCU",
  "operator": "MCU",
  "operateCode": "Mute participants.",
  "operationObject": "a5db36ce0a5b11eab313a52e57f34bda",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119944636,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Give floor to participants.",
  "operationObject": "a5db36ce0a5b11eab313a52e57f34bda",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119944857,
  "operateSource": "MCU",
  "operator": "MCU",
  "operateCode": "Disable voice activation.",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119945099,
  "operateSource": "MCU",
  "operator": "MCU",
  "operateCode": "Unmute participants.",
```

```
"operationObject": "a5db36ce0a5b11eab313a52e57f34bda",
"operateResult": "Successful"
},
{
  "operateTime": 1574119945861,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Broadcast participants.",
  "operationObject": "a5db36ce0a5b11eab313a52e57f34bda",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119947619,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Disconnect participants.",
  "operationObject": "a5db36ce0a5b11eab313a52e57f34bda",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119947859,
  "operateSource": "MCU",
  "operator": "MCU",
  "operateCode": "Cancel broadcasting participants.",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119948460,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Remove participants.",
  "operationObject": "*****905",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119949328,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Relinquish the host role.",
  "operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119950672,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Mute participants.",
  "operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119951805,
  "operateSource": "Portal",
  "operator": "Conference Operator",
  "operateCode": "Unmute all participants.",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119952067,
  "operateSource": "MCU",
  "operator": "MCU",
  "operateCode": "Unmute participants.",
  "operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
  "operateResult": "Successful"
},
{
  "operateTime": 1574119952954,
  "operateSource": "Portal",
  "operator": "Conference Operator",
```

```
"operateCode": "Request the floor.",
"operationObject": "9bd1c8b20a5b11eab31381603f51d3ae",
"operateResult": "Successful"
  }
],
"offset": 0,
"limit": 20,
"count": 23
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/history/confCtlRecord?confUUID=9a0fa6d10a5b11eaae5e191763c22c0e'
```

4.2.21 Querying Participant Records of a Historical Meeting

Description

This API is used to query participant records of a historical meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-98 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/history/confAttendeeRecord
Transport Protocol	HTTPS

Request Parameters

Table 4-99 Parameters

Parameter	Mandatory	Type	Location	Description
confUUID	Yes	String	Query	Meeting UUID.

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. Default value: 0 .
limit	No	Integer	Query	Number of records to query. The default value is 20 and the maximum value is 500 .
searchKey	No	String	Query	Query condition.
userUUID	No	String	Query	UUID of a user. NOTE This parameter will be discarded. Do not use it.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Authorization-Type	No	String	Header	Whether the request is sent from a third-party portal. NOTE This parameter will be discarded. Do not use it.
X-Site-Id	No	String	Header	ID of the HCS Online site where the authentication is performed. NOTE This parameter will be discarded. Do not use it.
Accept-Language	No	String	Header	Language. Default value: zh-CN . <ul style="list-style-type: none"> zh-CN: simplified Chinese. en-US: English (U.S.).

Status Codes

Table 4-100 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

Table 4-101 Response parameters

Parameter	Type	Description
offset	Integer	Query offset.
limit	Integer	Number of records on each page.
count	Integer	Total number of records.
data	Array of data objects	Participant list.

Table 4-102 Data structure of data

Parameter	Type	Description
displayName	String	Participant name.
callNumber	String	Phone number of the participant.
deviceType	String	Device type.
joinTime	long	UTC time when the participant joined the meeting, in milliseconds.
leftTime	long	UTC time when the participant left the meeting, in milliseconds.
mediaType	String	Media type.
deptName	String	Department name.

Example Request

```
GET /v1/mmc/management/conferences/history/confAttendeeRecord?
confUUID=9a0fa6d10a5b11eaae5e191763c22c0e
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
```



```
Host: api.meeting.huaweicloud.com  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 337  
Connection: keep-alive  
Expires: 0  
Pragma: No-cache  
Cache-Control: no-cache  
http_proxy_id: 2f3aa1fe64f6784b1eb6f75a67ef2b9d  
Server: api-gateway  
X-Request-Id: ba03d2ae3b805d8c545c83494c862b48  
  
{  
  "data": [  
    {  
      "displayName": "user8002",  
      "callNumber": "+991116004380",  
      "deviceType": "Soft client",  
      "joinTime": 1574119917872,  
      "leftTime": 1574119956881,  
      "mediaType": "Video",  
      "deptName": "wangyue"  
    },  
    {  
      "displayName": "+991116005905",  
      "callNumber": "+991116005905",  
      "deviceType": "Soft client",  
      "joinTime": 1574119935467,  
      "leftTime": 1574119947620,  
      "mediaType": "Video",  
      "deptName": "wangyue"  
    }  
  ],  
  "offset": 0,  
  "limit": 20,  
  "count": 2  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjJC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/history/confAttendeeRecord?confUUID=9a0fa6d10a5b11eaae5e191763c22c0e'
```

4.2.22 Authenticating an Anonymous User

Description

This API is used to authenticate an anonymous user when the user joins a meeting. Based on the meeting ID and password authentication, an authentication random number is returned. The random number can be used to obtain anonymous user details and meeting details.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-103 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/anonymous/auth
Transport Protocol	HTTPS

Request Parameters

Table 4-104 Parameters

Parameter	Mandator y	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Password	Yes	String	Header	Meeting password.

Status Codes

Table 4-105 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-106 Response parameters

Parameter	Type	Description
siteUrl	String	Next-hop URL.
random	String	Authentication random number.

Example Request

```
GET /v1/mmc/management/conferences/anonymous/auth?conferenceID=914047175
Connection: keep-alive
X-Password: *****
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 126
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 2d5d7b5342900131401c88617b8d4c45
Server: api-gateway
X-Request-Id: f37bf796d6203d994d3cfb2b4d318ac4
{
  "siteUrl": "https://117.78.2.254:443/conferences",
  "random": "108860505401300"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Password:*****' https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/anonymous/auth?conferenceID=914047175
```

4.2.23 Querying the Enterprise to Which a Meeting Belongs as an SP Administrator

Description

This API is used by an SP administrator to query the ID of the enterprise to which a meeting belongs based on the meeting ID.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-107 Prototype

Request Method	GET
Request Address	/v1/mmc/management/conferences/confOrg
Transport Protocol	HTTPS

Request Parameters

Table 4-108 Parameters

Parameter	Mandator y	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Status Codes

Table 4-109 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-110 Response parameters

Parameter	Type	Description
orgID	String	ID of the enterprise that the meeting belongs to.

Example Request

```
GET /v1/mmc/management/conferences/confOrg?conferenceID=900536108
Connection: keep-alive
X-Access-Token: *****
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 126
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 2d5d7b5342900131401c88617b8d4c45
Server: api-gateway
X-Request-Id: 249ed38c7e8a19017f7a566644483b0e111

{
  "orgID": "44252"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:*****' https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/confOrg?conferenceID=914047175
```

4.2.24 Querying SP Resource Usage as an SP Administrator

Description

This API is used by an SP administrator to query the shared resource usage of the SP.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-111 Prototype

Request Method	GET
Request Address	/v1/mmc/management/spRes
Transport Protocol	HTTPS

Request Parameters

Table 4-112 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Status Codes

Table 4-113 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-114 Response parameters

Parameter	Type	Description
usedAccountsCount	Integer	Number of concurrent participants used by all enterprises under the SP.

Example Request

```
GET /v1/mmc/management/spRes
Connection: keep-alive
X-Access-Token: *****
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 126
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 2d5d7b5342900131401c88617b8d4c45
Server: api-gateway
X-Request-Id: 249ed38c7e8a19017f7a566644483b0e111

{
  "usedAccountsCount": 5
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:*****' https://api.meeting.huaweicloud.com/v1/mmc/management/spRes
```

4.2.25 Querying Enterprise Resource Usage as an Enterprise Administrator

Description

This API is used to query the resource usage of an enterprise as the enterprise administrator.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-115 Prototype

Request Method	GET
Request Address	/v1/mmc/management/orgRes
Transport Protocol	HTTPS

Request Parameters

Table 4-116 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Status Codes

Table 4-117 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-118 Response parameters

Parameter	Type	Description
usedRecStorage	Double	Used recording storage space, in GB.
usedAccountsCount	Integer	Number of concurrent participants that have been used.
usedLiveCount	Integer	Used live broadcast resources.
confCount	Integer	Total number of meetings on the current day.
confLength	Integer	Total meeting duration on the current day.
activeAttendeeCount	Integer	Number of active users on the current day.
totalAttendeeCount	Integer	Total number of participants on the current day.

Example Request

```
GET /v1/mmc/management/orgRes HTTP/1.1
Connection: keep-alive
X-Access-Token: *****
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200 OK
Content-Length: 141
Cache-Control: no-store
Connection: keep-alive
Content-Type: application/json
Date: Thu, 24 Dec 2020 06:25:59 GMT
Server: api-gateway
X-APIG-Latency: 261
X-APIG-Ratelimit-Api: remain:99,limit:100,time:1 minute
X-APIG-Ratelimit-Api-Allenv: remain:199,limit:200,time:1 second
X-APIG-Upstream-Latency: 259
X-Envoy-Upstream-Service-Time: 210
X-Request-Id: f991ecec77df1692c74f253d765ca146

{
  "usedRecStorage": 39.59,
  "usedAccountsCount": 1,
  "usedLiveCount": 0,
  "confCount": 4,
  "confLength": 57,
  "activeAttendeeCount": 1,
  "totalAttendeeCount": 2
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:*****' https://api.meeting.huaweicloud.com/v1/mmc/management/orgRes
```

4.2.26 Activating a Meeting

Description

This API is used to activate a meeting using the meeting ID and password. All meeting control APIs can be called only after a meeting is activated.

NOTE

Whether the guest password can be used to activate a meeting depends on whether **allowGuestStartConf** is set to **true** when the meeting is created.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 4-119 Prototype

Request Method	POST
Request Address	/v1/mmc/management/conferences/start
Transport Protocol	HTTPS

Request Parameters

Table 4-120 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
conferenceID	Yes	String	Body	Meeting ID.
password	Yes	String	Body	Meeting password.

Status Codes

Table 4-121 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 4-122 Response parameters

Parameter	Type	Description
uuid	String	UUID. NOTE This parameter is discarded. Do not use it.
regionIP	String	Public IP address of the region where the meeting is held.

Example Request

```
POST /v1/mmc/management/conferences/start HTTP/1.1
Connection: keep-alive
X-Access-Token: *****
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "conferenceID": "986030665",
  "password": "*****"
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Length: 141
Cache-Control: no-store
Connection: keep-alive
Content-Type: application/json
Date: Thu, 24 Dec 2020 06:25:59 GMT
Server: api-gateway
X-APIG-Latency: 261
X-APIG-Ratelimit-Api: remain:99,limit:100,time:1 minute
X-APIG-Ratelimit-Api-Allenv: remain:199,limit:200,time:1 second
X-APIG-Upstream-Latency: 259
X-Envoy-Upstream-Service-Time: 210
X-Request-Id: f991ecec77df1692c74f253d765ca146

{
  "uuid": "stb7fe307f8971e44acc5cf8be2112575ff8387ff6ddea68a5e",
  "regionIP": "100.94.23.40"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' -d '{"conferenceID": "986030665","password": "*****"}' 'https://api.meeting.huaweicloud.com/v1/mmc/management/conferences/start'
```

5 Meeting Control

5.1 Examples

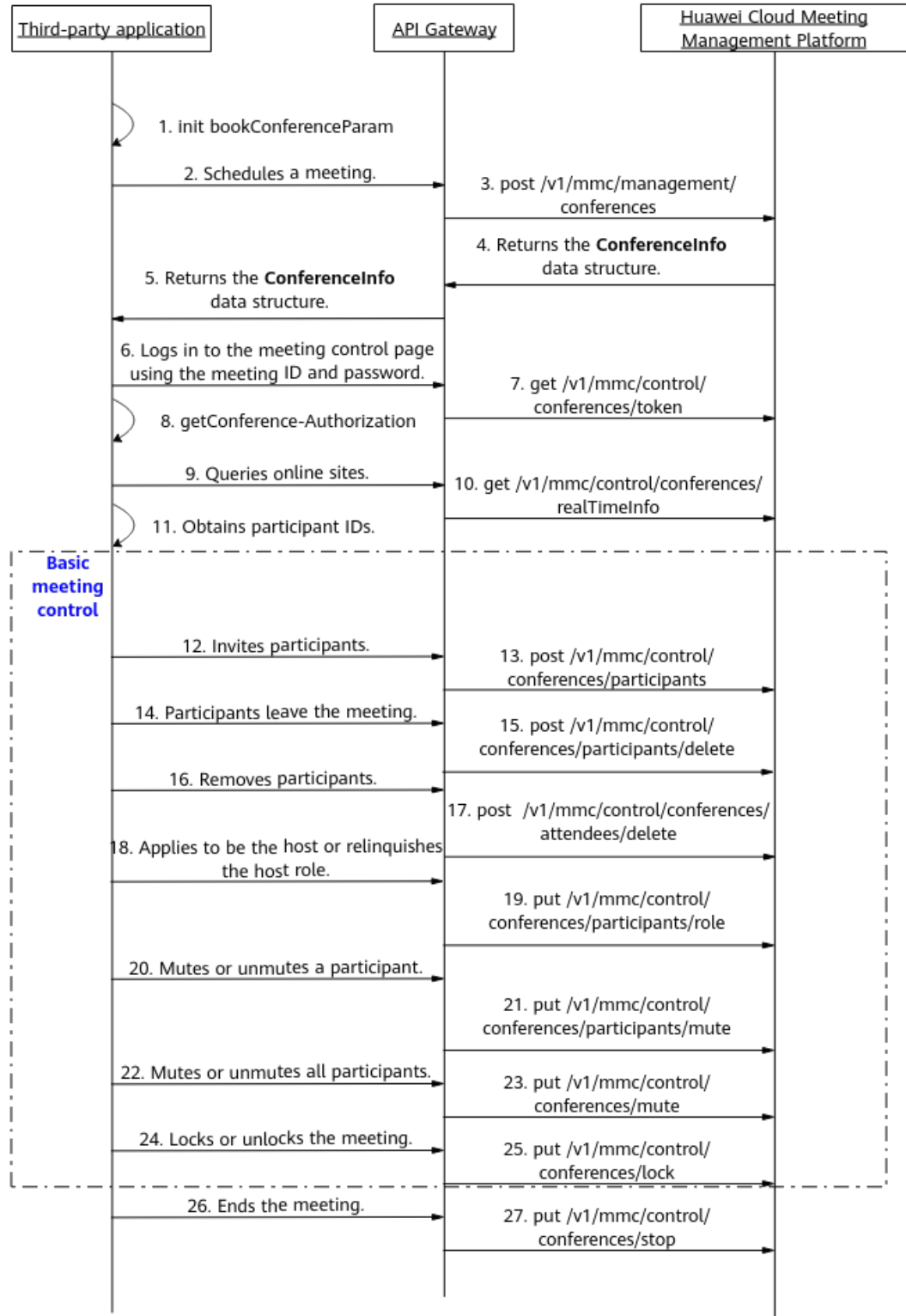
5.1.1 Example 1: Basic Meeting Control

Scenarios

Call APIs to schedule, control, and end a meeting.

Service Process

Figure 5-1 Basic meeting control process



1. A third-party application transfers the initialized parameters of the meeting to schedule, such as the meeting type and participant details.
2. The third-party application sends a meeting scheduling request to API Gateway and transfers the initialized parameters.
3. API Gateway sends a meeting scheduling request to Huawei Cloud Meeting Management Platform.
4. After the meeting is scheduled, Huawei Cloud Meeting Management Platform returns the meeting details to API Gateway.
5. API Gateway returns the received token to the third-party application.
6. To obtain the meeting control token, the third-party application sends a request to API Gateway to log in to the meeting control system using the meeting ID and password.
7. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain the meeting control token.
8. The third-party application obtains the meeting control token, which will be invoked by basic meeting control APIs later.
9. To obtain participant IDs, the third-party application sends a request to API Gateway to query the meeting site details.
10. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query the site details.
11. The third-party application obtains the participant IDs, which will be invoked by basic meeting control APIs later.
12. The third-party application calls the corresponding basic meeting control APIs, and then sends a request to API Gateway to end the meeting.
The basic meeting control APIs shown from steps 12 to 25 in the preceding figure can be called in any sequence.
13. API Gateway sends a request to end the meeting to Huawei Cloud Meeting Management Platform, which then ends the meeting.

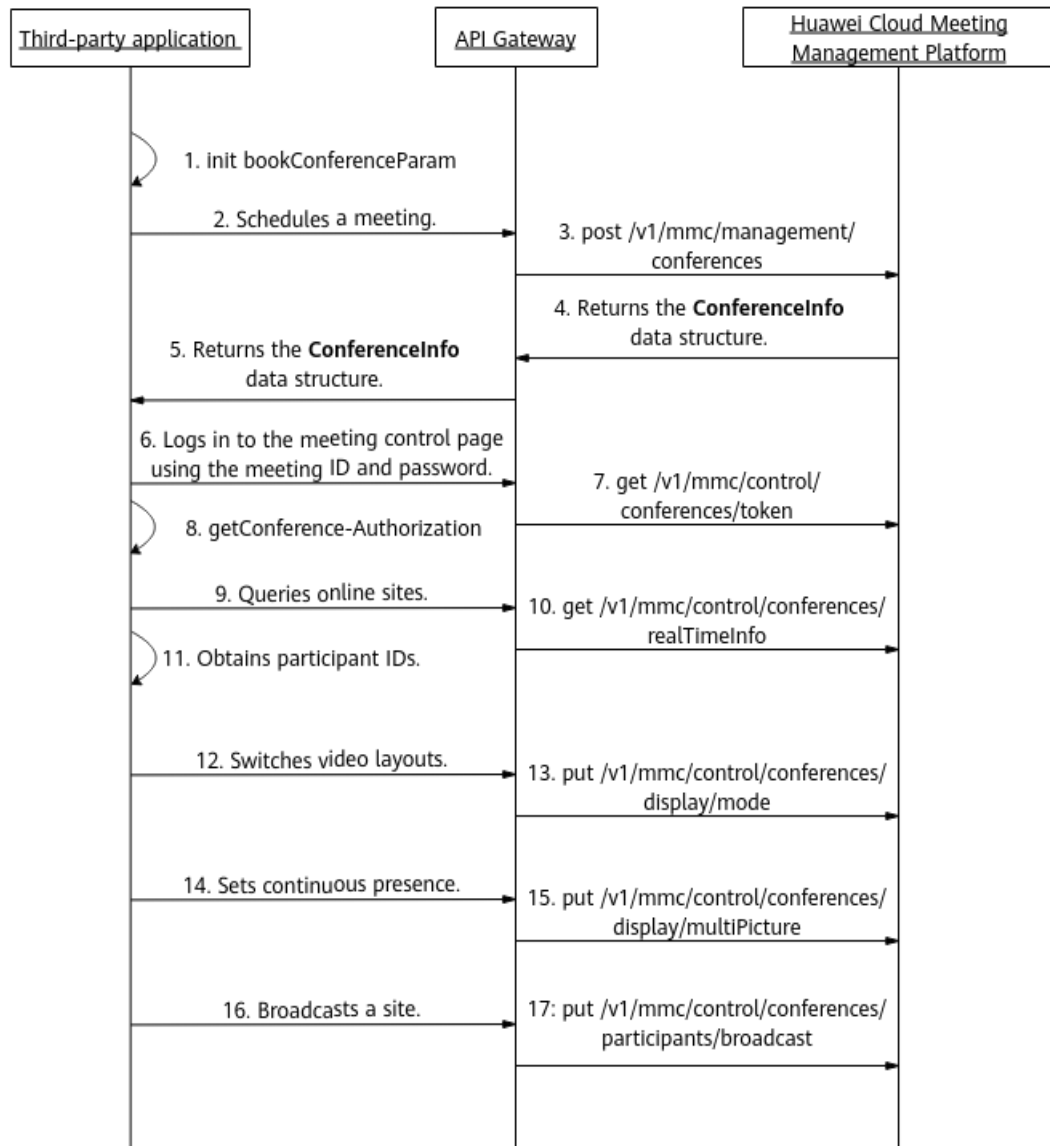
5.1.2 Example 2: Video Meeting Control

Scenarios

Call APIs to control a video meeting.

Service Process

Figure 5-2 Video meeting control process



1. A third-party application transfers the initialized parameters of the meeting to schedule, such as the meeting type (video) and participant details.
2. The third-party application sends a meeting scheduling request to API Gateway and transfers the initialized parameters.
3. API Gateway sends a meeting scheduling request to Huawei Cloud Meeting Management Platform.
4. After the meeting is scheduled, Huawei Cloud Meeting Management Platform returns the meeting details to API Gateway.
5. API Gateway returns the received token to the third-party application.

6. To obtain the meeting control token, the third-party application sends a request to API Gateway to log in to the meeting control system using the meeting ID and password.
7. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain the meeting control token.
8. The third-party application obtains the meeting control token, which will be invoked by video meeting control APIs later.
9. To obtain participant IDs, the third-party application sends a request to API Gateway to query the meeting site details.
10. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query the site details.
11. The third-party application obtains the participant IDs, which will be invoked by video meeting control APIs later.
12. The third-party application calls the corresponding video meeting control APIs, and then sends a request to API Gateway to end the meeting.
The video meeting control APIs shown from steps 12 to 19 in the preceding figure can be called in any sequence.
13. API Gateway sends a request to end the meeting to Huawei Cloud Meeting Management Platform, which then ends the meeting.

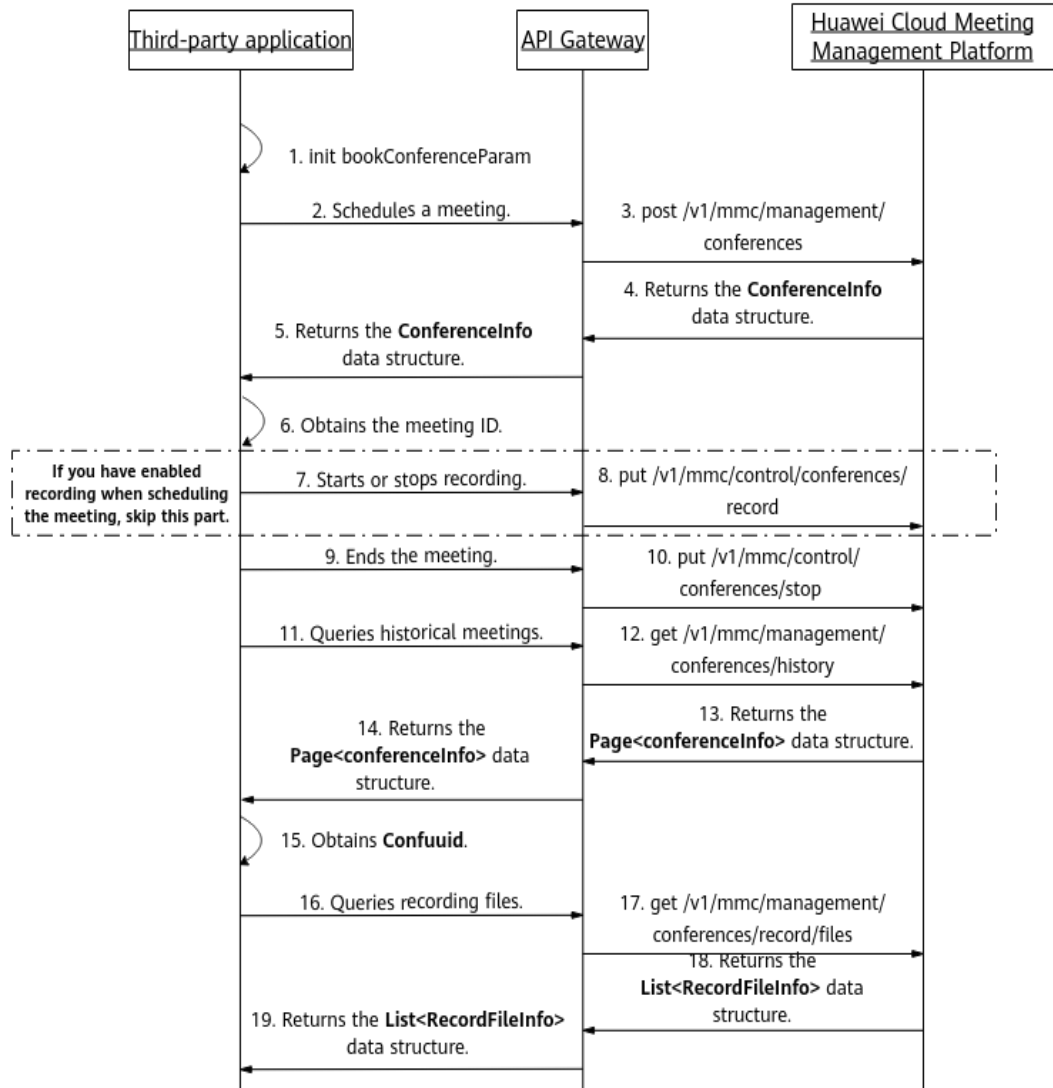
5.1.3 Example 3: Meeting Recording

Scenarios

Call APIs to record a meeting.

Service Process

Figure 5-3 Meeting recording process



1. A third-party application transfers the initialized parameters of the meeting to schedule, such as the meeting type, participant details, status of automatic recording, and recording type.
2. The third-party application sends a meeting scheduling request to API Gateway and transfers the initialized parameters.
3. API Gateway sends a meeting scheduling request to Huawei Cloud Meeting Management Platform.
4. After the meeting is scheduled, Huawei Cloud Meeting Management Platform returns the meeting details to API Gateway.
5. API gateway returns the received meeting details, including the meeting ID, to the third-party application.
6. If the automatic recording function is not enabled when the meeting is scheduled, the third-party application sends a request to API Gateway to start or stop recording.

7. API Gateway sends a request to start or stop recording to Huawei Cloud Meeting Management Platform. When receiving the request, Huawei Cloud Meeting Management Platform starts or stops recording.
8. After the recording is completed, the third-party application sends a request to API Gateway to end the meeting.
9. API Gateway sends a request to end the meeting to Huawei Cloud Meeting Management Platform, which then ends the meeting.
10. To obtain the meeting UUID, the third-party application sends a request to API Gateway to query the historical meeting list.
11. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query the historical meeting list.
12. After the historical meeting list is obtained, Huawei Cloud Meeting Management Platform returns the result to API Gateway.
13. API Gateway returns the received historical meeting details, including the meeting UUID, to the third-party application. The meeting UUID can be used for querying recording files.
14. To view and download recording files, the third-party application sends a request to API Gateway to query recording files.
15. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query recording files.
16. After the recording files are obtained, Huawei Cloud Meeting Management Platform returns the recording file details to API Gateway.
17. API Gateway returns the received recording files to the third-party application. The third-party application can view and download the recording files in the browser using the returned URL.

5.2 APIs

5.2.1 Obtaining a Meeting Control Token

Description

This API is used to obtain a meeting control token of an ongoing meeting. (If this API is called for a meeting that has not started, a failure message is returned.) A token is valid for half an hour.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-1 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/mmc/control/conferences/token
Transport Protocol	HTTPS

Request Parameters

Table 5-2 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID. NOTE conferenceID returned when a meeting is created. The value is not the value of vmrConferenceID.
X-Conference-Authorization	No	String	Header	Meeting control token. NOTE <ul style="list-style-type: none"> This parameter is carried only when the meeting control token keeps alive. If the session has expired and the request contains a password, re-authentication is required. A new meeting control token is returned.
X-Password	Yes	String	Header	Host password. NOTE When the meeting control token keeps alive, the host password is not authenticated.
X-Login-Type	Yes	Integer	Header	Request type. <ul style="list-style-type: none"> The value is fixed at 1.
X-Nonce	No	String	Header	Temporary nonce token of a user.

Status Codes

Table 5-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
500	Server exception.

Response Parameters

Table 5-4 Response parameters

Parameter	Type	Description
data	data object	Meeting control token information.
addressToken	String	Temporary token for querying the corporate directory.
globalPublicIP	String	URL of the Huawei Cloud Meeting Management Platform.

Table 5-5 Data structure of data

Parameter	Type	Description
token	String	Meeting control token. The token is valid for half an hour. NOTE You can use a meeting control token in either of the following ways: <ul style="list-style-type: none"> Use it directly in all subsequent meeting control APIs. Example: X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb Use it after base64 transcoding. The transcoding format is Basic Base64(token). Example: X-Conference-Authorization:Basic Y25yYjQyNmNhMzgyMWY4YTE4ZTc4ZDU5ZGE1NzJhNDIxNjQ0YzUyZGZkOWE0NzMwMjk4
tmpWsToken	String	Authentication token for setting up a meeting control WebSocket connection.
wsURL	String	URL for setting up a meeting control WebSocket connection.

Parameter	Type	Description
role	Integer	Participant role in the meeting. <ul style="list-style-type: none"> ● 0: common participant. ● 1: meeting host.
expireTime	long	Expiration timestamp of the meeting control token, in milliseconds.
userID	String	UUID of the user who schedules the meeting.
orgID	String	ID of the enterprise that the meeting belongs to.
participantID	String	Site ID returned after a terminal joins the meeting. NOTE This parameter will be discarded. Do not use it.
confTokenExpire Time	Integer	Validity period of the meeting control token, in seconds.
vmrCurrentConfl D	String	ID of the cloud meeting room used to hold the meeting.
supportNotifyTy pe	Array of strings	Type of WebSocket messages that can be pushed.

Example Request

```
GET /v1/mmc/control/conferences/token?conferenceID=914083901
Connection: keep-alive
X-Password: *****
X-Login-Type: 1
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 337
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 630c3bc684928cfa780860fe6a14f38f
Server: api-gateway
X-Request-Id: d689482097c019094f8aa41e57e52e8e

{
  "data": {
    "token": "stb15afe94b97a5cd7f152d5308c420dbdce85beda4a3b39f26",
    "tmpWsToken": "stba0a69f40a78e50f3789e72386f7da84809fbc86a1400bea5",
    "wsURL": "wss://119.3.200.83:443",
    "role": 1,
    "expireTime": 1576651143250,
    "userID": "ff808081699b56cb0169be103500012b",
```

```
"orgID": "15659",
"confTokenExpireTime": 1800,
"vmrCurrentConfID": "914083901",
"supportNotifyType": [
  "INCREMENT"
],
"addressToken": "stbWdPZ2ooVesQTwqZESu7AjVIH9Pv4O1KcQ",
"globalPublicIP": "meeting.huaweicloud.com"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Login-Type: 1' -H 'X-Password: *****' 'https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/token?conferenceID=914083901'
```

5.2.2 Querying Meeting Details in Real Time

Description

This API is used to query details about an ongoing meeting in real time.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-6 Prototype

Request Method	GET
Request Address	/v1/mmc/control/conferences/realTimeInfo
Transport Protocol	HTTPS

Request Parameters

Table 5-7 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.

Parameter	Mandatory	Type	Location	Description
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for obtaining a meeting control token.

Status Codes

Table 5-8 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
500	Server exception.

Response Parameters

Table 5-9 Response parameters

Parameter	Type	Description
attendees	Array of attendee objects	Information about participants invited during meeting scheduling and participants invited by the host during the meeting. The information about online and absent participants is returned.
participants	Array of participant objects	List of online participants, including participants who have joined the meeting, are being called, and are joining the meeting. NOTE <ul style="list-style-type: none"> When an account joins a meeting on different types of terminals (such as mobile phones and PCs), the account is counted as an online participant on each terminal. Participants who have not joined or have left the meeting are not displayed in the online participant list.
confInfo	confInfo object	Ongoing meeting information.

Table 5-10 attendee data structure

Parameter	Type	Description
accountID	String	Huawei Cloud Meeting account of the participant.
userUUID	String	Participant UUID.
name	String	Participant name.
phone	String	Participant number.
phoneLeft	String	Number of the left screen when the device is a triple-screen telepresence device. NOTE This parameter will be discarded. Do not use it.
phoneRight	String	Number of the right screen when the device is a triple-screen telepresence device. NOTE This parameter will be discarded. Do not use it.

Table 5-11 participant data structure

Parameter	Type	Description
pid	String	Participant ID.
name	String	Participant name.
phone	String	Participant number.
state	Integer	User status. <ul style="list-style-type: none"> • 0: The participant is in the meeting. • 1: The participant is being called. • 2: The participant is joining the meeting. NOTE Participants who have not joined the meeting or have left the meeting are not displayed in the online participant list.
video	Integer	Audio or video. <ul style="list-style-type: none"> • 0: audio. • 1: video.

Parameter	Type	Description
mute	Integer	Microphone status. <ul style="list-style-type: none"> • 0: enabled. • 1: disabled.
hand	Integer	Hand raising status of a participant. <ul style="list-style-type: none"> • 0: The participant is not raising hands. • 1: The participant is raising hands.

Table 5-12 confInfo data structure

Parameter	Type	Description
chairID	String	Host ID.

Example Request

```
GET /v1/mmc/control/conferences/realTimeInfo?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_131)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 521
Connection: keep-alive
Server: api-gateway
http_proxy_id: b32bf70a8ac93ea13691fc34730fd78c

{
  "attendees": [
    {
      "accountID": "user01",
      "name": "user01",
      "phone": "+99111****815"
    }
  ],
  "participants": [
    {
      "pid": "a6b4e988216c11eabc516bc3a3d8d6c4",
      "name": "user01",
      "phone": "+99111****815",
      "state": 0,
      "video": 1,
      "mute": 1,
      "hand": 0
    },
    {
      "pid": "e4286e9c3cca11ef813235922d0586e5",
      "name": "Shanghai Venue",
      "phone": "+991112939613",
      "state": 0,

```

```

        "video": 1,
        "mute": 0,
        "hand": 0
    }
],
"confInfo": {
    "chairID": "a6b4e988216c11eabc516bc3a3d8d6c4"
}
}

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -X GET -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/realTimeInfo?conferenceID=914083136

```

5.2.3 Inviting Participants

Description

This API is used to invite a participant to a meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-13 Prototype

Request Method	POST
Request Address	/v1/mmc/control/conferences/participants
Transport Protocol	HTTPS

Request Parameters

Table 5-14 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.

Parameter	Mandatory	Type	Location	Description
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
attendees	Yes	Array of attendee objects	Body	List of participants to invite.

Table 5-15 attendee data structure

Parameter	Mandatory	Type	Description
userUUID	No	String	Participant UUID.
accountId	No	String	Huawei Cloud Meeting account of the participant.
name	Yes	String	Participant name. The value contains up to 96 characters.
role	No	Integer	Participant role in the meeting. Default value: 0 . <ul style="list-style-type: none">• 0: common participant.• 1: meeting host.

Parameter	Mandatory	Type	Description
phone	Yes	String	<p>Number. SIP numbers or mobile numbers are supported.</p> <p>NOTE</p> <ul style="list-style-type: none"> The number can be obtained through the API for Querying the Corporate Directory. The return value of number is a SIP number, and the return value of phone is a mobile number. If you enter a SIP number, the system calls the corresponding soft terminal or hard terminal. If you enter a mobile number, the system dials the mobile number. To make a call to a mobile phone, the PSTN permission must be enabled. Otherwise, the call cannot be made.
phone2	No	String	Reserved field. The value types are the same as those of the phone parameter.
phone3	No	String	Reserved field. The value types are the same as those of the phone parameter.
email	No	String	<p>Email address.</p> <p>NOTE</p> <p>You do not need to set this parameter because no meeting notification is sent to participants invited during the meeting.</p>
sms	No	String	<p>Mobile number for receiving SMS notifications.</p> <p>NOTE</p> <p>You do not need to set this parameter because no meeting notification is sent to participants invited during the meeting.</p>

Parameter	Mandatory	Type	Description
type	Yes	String	Terminal type. The options are as follows: <ul style="list-style-type: none"> • normal: soft client. • terminal: hard terminal. • outside: external participant. • mobile: mobile number. • ideahub: IdeaHub. • board: whiteboard (SmartRooms), including MaxHub, Hisense devices, and IdeaHub B2. • hwvision: smart TV.
deptUUID	No	String	Department code.
deptName	No	String	Department name.

Status Codes

Table 5-16 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/mmc/control/conferences/participants?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
```

```

user-agent: WeLink-desktop
Content-Length: 175
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "attendees": [
    {
      "name": "Shanghai Venue",
      "role": 1,
      "phone": "+8657*****",
      "type": "normal"
    }
  ]
}

```

Example Response

```

HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: b77bb5478e0b1fc0dbbb4e8d4e26ba65
Server: api-gateway
X-Request-Id: 479fdc1d80e2e7ae19c4a08c28821822

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -H 'content-type: application/json' -X POST -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"attendees":
[{"name":"user01","role":0,"phone":"+8657*****"}]}' https://api.meeting.huaweicloud.com/v1/mmc/control/
conferences/participants?conferenceID=914083136

```

5.2.4 Disconnecting Participants

Description

This API is used to disconnect a participant who is in a meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-17 Prototype

Request Method	POST
Request Address	/v1/mmc/control/conferences/participants/delete

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 5-18 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
bulkHangUpParticipants	Yes	String[1..*]	Body	List of IDs of participants to disconnect. NOTE Participant IDs can be obtained using the API for Querying Meeting Details in Real Time .

Status Codes

Table 5-19 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/mmc/control/conferences/participants/delete?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "bulkHangUpParticipants": [
    "ba9acb1e216d11eabc5165c2b91ad427"
  ]
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 03b6db0b6804090f93fa80d4c1ed6c13
Server: api-gateway
X-Request-Id: bd6c09db2be3f986c2382c01deb240e6
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Conference-Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"bulkHangUpParticipants":["ba9acb1e216d11eabc5165c2b91ad427"]}' https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/delete?conferenceID=914083136
```

5.2.5 Removing Participants

Description

This API is used to remove a participant.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-20 Prototype

Request Method	POST
Request Address	/v1/mmc/control/conferences/attendees/delete

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 5-21 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
bulkDelAttendInfo	Yes	Array of DelAttendInfo objects	Body	List of participants to be removed.

Table 5-22 DelAttendInfo parameters

Parameter	Mandatory	Type	Location	Description
number	Yes	String	Body	Participant number.
participantID	No	String	Body	Participant ID. This parameter is mandatory for participants who have joined the meeting.

Status Codes

Table 5-23 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.

HTTP Status Code	Description
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/mmc/control/conferences/attendees/delete?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "bulkDelAttendInfo": [
    {
      "number": "+991116003815",
      "participantID": "ba9acb1e216d11eabc5165c2b91ad427"
    }
  ]
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 8e6fe9e1d0a45e33398f426a227e855a
Server: api-gateway
X-Request-Id: 8957e54c2881f52125edd6439995fbf7
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Conference-Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"bulkDelAttendInfo": [{"number":"+991116003815","participantID":"ba9acb1e216d11eabc5165c2b91ad427"}]}' https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/attendees/delete?conferenceID=914083136
```

5.2.6 Applying for or Relinquishing the Host Role

Description

This API is used to assign or relinquish the host role.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-24 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/participants/role
Transport Protocol	HTTPS

Request Parameters

Table 5-25 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	Participant ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
applyChair	Yes	Integer	Body	<ul style="list-style-type: none"> 1: Apply to be the host. 0: Relinquish the host role.
chairmanPwd	No	String	Body	Host password. This parameter is mandatory if a participant applies to be the host.

Status Codes

Table 5-26 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/participants/role?
conferenceID=914083136&participantID=d2c3ae64216e11eabc510dc9b62e3a80
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
user-agent: WeLink-desktop
Content-Length: 22
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "applyChair": 1,
  "chairmanPwd": "*****"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 8e6fe9e1d0a45e33398f426a227e855a
Server: api-gateway
X-Request-Id: 8957e54c2881f52125edd6439995fbf7
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"applyChair":0}' https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/role?
conferenceID=914083136&participantID=d2c3ae64216e11eabc510dc9b62e3a80
```

5.2.7 Applying to Be a Co-Host

Description

This API is used to assign or relinquish the co-host role. Only guests can be set as co-hosts.

Debugging

You can debug this API in [API Explorer](#).

URI

PUT /v1/mmc/control/conferences/participants/cohost

Table 5-27 Query parameters

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.
participantID	Yes	String	Participant ID.

Request Parameters

Table 5-28 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference-Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Table 5-29 Request body parameter

Parameter	Mandatory	Type	Description
isCohost	Yes	Integer	<ul style="list-style-type: none"> • 0: Relinquish the co-host role. • 1: Assign the co-host role. Minimum value: 0 Maximum value: 1

Response Parameters

Status code: 400

Table 5-30 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/participants/cohost?
conferenceID=914346822&participantID=b4fff28653da11eab6b7e73d6691f26c
{
  "isCohost" : 1
}
```

Example Response

Status code: 400

Invalid parameters.

```
{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.8 Muting or Unmuting Participants

Description

This API is used to mute or unmute a participant.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-31 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/participants/mute
Transport Protocol	HTTPS

Request Parameters

Table 5-32 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	Participant ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
isMute	Yes	Integer	Body	<ul style="list-style-type: none"> 0: unmuted. 1: muted.

Status Codes

Table 5-33 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/participants/mute?
conferenceID=914083136&participantID=d2c3ae64216e11eabc510dc9b62e3a80
Connection: keep-alive
Content-Type: application/json
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Length: 20
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "isMute": 0
}
```

Example Response

```
HTTP/1.1 200
Content-Type: application/json;charset=UTF-8
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Length: 39
Connection: keep-alive
http_proxy_id: 52487e3f0d727ae848ed21186b1b3231
Server: api-gateway
X-Request-Id: 4ae7c538a4c54a717cfd2acb613385e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"isMute": 1}' 'https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/mute?
conferenceID=914083136&participantID=d2c3ae64216e11eabc510dc9b62e3a80'
```

5.2.9 Muting or Unmuting All Participants

Description

This API is used to mute or unmute all participants (except the host) in a meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-34 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/mute
Transport Protocol	HTTPS

Request Parameters

Table 5-35 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
isMute	Yes	Integer	Body	<ul style="list-style-type: none">• 0: unmuted.• 1: muted.

Parameter	Mandatory	Type	Location	Description
allowUnmuteByOneself	No	Integer	Body	Whether to allow participants to unmute themselves. This parameter is valid only when participants are muted. <ul style="list-style-type: none"> 0: no. 1: yes.

Status Codes

Table 5-36 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/mute?conferenceID=914083136
Connection: keep-alive
Content-Type: application/json
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Length: 20
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "allowUnmuteByOneself":1,
  "isMute":1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
```

```
Content-Length: 39
Connection: keep-alive
http_proxy_id: f48fd467413ebe6032fa102ba53cafe
Server: api-gateway
X-Request-Id: f6cab3797cb5b310d498c0e97db0f927
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"isMute":1}' 'https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/mute?conferenceID=914083136'
```

5.2.10 Raising or Lowering Hands

Description

This API is used to configure the hand-raising status of a participant.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-37 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/participants/hands
Transport Protocol	HTTPS

Request Parameters

Table 5-38 Parameters

Parameter	Mandato ry	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	Participant ID.

Parameter	Mandatory	Type	Location	Description
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
handsState	Yes	Integer	Body	<ul style="list-style-type: none"> 0: Lower a hand. 1: Raise a hand.

Status Codes

Table 5-39 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/participants/hands?
conferenceID=914083136&participantID=d2c3ae64216e11eabc510dc9b62e3a80
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "handsState":1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
```

```
Connection: keep-alive
http_proxy_id: efa7d0090ee1d5dbcb54aa9f3cfafa96
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/hands?
conferenceID=914083136&participantID=d2c3ae64216e11eabc510dc9b62e3a80
```

5.2.11 Raising Hands

Description

This API is used to configure the hand-raising status of guests in batches.

Debugging

You can debug this API in [API Explorer](#).

URI

PUT /v1/mmc/control/conferences/participants/batch/hands

Table 5-40 Query parameter

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.

Request Parameters

Table 5-41 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference-Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Table 5-42 Request body parameters

Parameter	Mandatory	Type	Description
handsState	Yes	Integer	<ul style="list-style-type: none"> • 0: Lower hands. • 1: Raise hands.
pids	Yes	Array of strings	Participant ID list.

Response Parameters

Status code: 400

Table 5-43 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/participants/batch/hands?conferenceID=914376690
{
  "handsState" : 1,
  "pids" : [ "af50e9e63b4111ea9668df997d1c89da", "cf50e9e63b41e63b49697d197d11ea9d" ]
}
```

Example Response

Status code: 400

Invalid parameters.

```
{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.12 Locking or Unlocking a Meeting

Description

This API is used to lock or unlock a meeting. After a meeting is locked, users cannot actively join the meeting. Users can use the host password or host link to join the locked meeting, or the host can invite users to the meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-44 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/lock
Transport Protocol	HTTPS

Request Parameters

Table 5-45 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
isLock	Yes	Integer	Body	<ul style="list-style-type: none">● 0: Unlock the meeting.● 1: Lock the meeting.

Status Codes

Table 5-46 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/lock?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
Content-Length: 20
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
{
  "isLock":1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 81e59ca1730e459417bf8b6c5376ecfa
Server: api-gateway
X-Request-Id: 2a40022a27536e9fbf3dba3dc7d4d443
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-  
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"isLock": 1}' 'https://  
api.meeting.huaweicloud.com/v1/mmc/control/conferences/lock?conferenceID=914083136'
```

5.2.13 Extending a Meeting

Description

This API is used to extend a meeting. By default, the meeting is automatically extended.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-47 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/duration
Transport Protocol	HTTPS

Request Parameters

Table 5-48 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Parameter	Mandatory	Type	Location	Description
auto	Yes	Integer	Body	<ul style="list-style-type: none"> • 0: Extend the meeting by a custom duration. • 1: The system automatically extends the meeting. (If no duration is specified, the meeting is extended by 15 minutes each time by default.)
duration	No	Integer	Body	Extension duration, in minutes. Default value: 15 .

Status Codes

Table 5-49 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/duration?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

```
{
  "auto": 0,
  "duration": 40
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"auto": 0,"duration": 40}'
https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/duration?conferenceID=914083136
```

5.2.14 Ending a Meeting

Description

This API is used to end an ongoing meeting.

NOTE

- If the function of retaining reservation records when a meeting ends is disabled by an administrator, the meeting is deleted from the meeting list after it ends, and participants cannot join it again. If that function is enabled, participants can join the meeting again before the scheduled time of the meeting.
- By default, the function of retaining reservation records when a meeting ends is enabled.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-50 Prototype

Request Method	PUT
-----------------------	-----

Request Address	/v1/mmc/control/conferences/stop
Transport Protocol	HTTPS

Request Parameters

Table 5-51 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Status Codes

Table 5-52 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/stop?conferenceID=914044873
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
Content-Length: 24
```

```
Host: api.meeting.huaweicloud.com  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 39  
Connection: keep-alive  
http_proxy_id: 46df973984b4ce317502460cd4860600  
Server: api-gateway  
X-Request-Id: 0c4d9e9ce2dc2dca8cac816cad7c42d6
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-  
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' 'https://  
api.meeting.huaweicloud.com/v1/mmc/control/conferences/stop?conferenceID=914044873'
```

5.2.15 Setting Continuous Presence

Description

This API is used to set continuous presence. This API is deprecated. Use the API for [customizing continuous presence](#).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-53 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/display/multiPicture
Transport Protocol	HTTPS

Request Parameters

Table 5-54 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
manualSet	Yes	Integer	Body	Whether to customize continuous presence. <ul style="list-style-type: none"> ● 0: no. The automatic continuous presence is used. ● 1: yes.
imageType	No	String	Body	Number of screens. This parameter is valid when manualSet is set to 1 . <ul style="list-style-type: none"> ● Single: single screen. ● Two: two screens. ● Three: three screens. ● Four: four screens. ● Six: six screens. ● Nine: nine screens. ● Sixteen: 16 screens.
subscriberInPics	No	Array of SubscriberInPic objects	Body	Screen list. This parameter is mandatory when you manually set continuous presence.

Parameter	Mandatory	Type	Location	Description
switchTime	No	Integer	Body	Interval of displaying participants. Value range: 10 to 120. The default value is 10 . Unit: second. This parameter is valid only for multi-screen layouts.

Table 5-55 SubscriberInPic data structure

Parameter	Mandatory	Type	Description
index	Yes	Integer	Sequence number of each screen in continuous presence. The sequence number starts from 1 . Default value: 1 .
subscriber	No	Array of strings	Participant ID list in each screen. Set this parameter to the value of pid obtained by calling the API for Querying Meeting Details in Real Time .
isAssistStream	No	Integer	Whether a stream is a presentation. Default value: 0 . <ul style="list-style-type: none"> • 0: no. • 1: yes.

Status Codes

Table 5-56 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/display/multiPicture?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
Content-Length: 27
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "manualSet": 0
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 6346df97898dcd1e9cb205b75f24fe65
Server: api-gateway
X-Request-Id: 0294dd7aedd58db92a23de453cbcde0e
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"manualSet": 0}' 'https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/display/multiPicture?conferenceID=914083136'
```

5.2.16 Customizing Continuous Presence

Description

This API is used to customize continuous presence in a meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-57 Prototype

Request Method	PUT
-----------------------	-----

Request Address	/v1/mmc/control/conferences/display/customMultiPicture
Transport Protocol	HTTPS

Request Parameters

Table 5-58 Parameters








































Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
manualSet	Yes	Integer	Body	Whether to manually customize continuous presence. <ul style="list-style-type: none"> • 0: no. The automatic continuous presence is used. • 1: yes.
picLayoutInfo	No	PicLayoutInfo object	Body	Custom continuous presence. NOTE Reserved field. It cannot be used in the current version.
imageType	No	String	Body	Layout type. This parameter is valid when you manually configure continuous presence. For details about the mapping between imageType values and layouts, see Figure 5-4 .

Parameter	Mandatory	Type	Location	Description
subscriberInPics	No	Array of SubscriberInPic objects	Body	Screen list. This parameter is mandatory when you manually configure continuous presence.
switchTime	No	Integer	Body	Interval of displaying participants. Value range: 10 to 120. The default value is 10 . Unit: second. This parameter is valid only for multi-screen layouts. NOTE This parameter is valid only for professional meeting terminals and is invalid for soft clients.

Parameter	Mandatory	Type	Location	Description
multiPicSaveOnly	No	Boolean	Body	Whether to save continuous presence only. <ul style="list-style-type: none">• true: Save continuous presence only.• false: Save and apply continuous presence.

Parameter	Mandatory	Type	Location	Description
				<p>NOTE</p> <ul style="list-style-type: none"> • Saving continuous presence only will not broadcast continuous presence. • Saving and applying continuous presence: <ol style="list-style-type: none"> 1. When the meeting status is broadcasting continuous presence, voice-activated single screen, voice-activated continuous presence, or displaying continuous presence to the host, saving and applying continuous presence will change the screen layout without changing the meeting status. 2. When a meeting is in other statuses, for example, automatic continuous presence, broadcasting a participant, or giving the floor to a participant, saving and applying continuous presence will change the meeting status to broadcasting continuous presence. • During broadcasting continuous presence, voice-activated continuous presence, or voice activated single screen, you cannot display continuous presence to the host.

Figure 5-4 imageType (layout type)

Single screen	 Single
Two screens	 Two
Three screens	    Three Three-2 Three-3 Three-4
Four screens	   Four Four-2 Four-3
Five screens	  Five Five-2
Six screens	     Six Six-2 Six-3 Six-4 Six-5
Seven screens	    Seven Seven-2 Seven-3 Seven-4
Eight screens	    Eight Eight-2 Eight-3 Eight-4
Nine screens	 Nine
Ten screens	      Ten Ten-2 Ten-3 Ten-4 Ten-5 Ten-6
Thirteen screens	     Thirteen Thirteen-2 Thirteen-3 Thirteen-4 Thirteen-5
Sixteen screens	 Sixteen
Seventeen screens	 Seventeen
Twenty-five screens	 Twenty-Five

NOTE

Values of imageType are displayed below layout diagrams. For example, to set the continuous presence layout to four screens of the same size, set **imageType** to **Four**.

Table 5-59 PicLayoutInfo data structure

Parameter	Mandatory	Type	Description
x	No	Integer	Width of the continuous presence layout.
y	No	Integer	Height of the continuous presence layout.
subPicLayoutInfoList	No	Array of SubPicLayoutInfo objects	List of screens in the layout.

Table 5-60 SubPicLayoutInfo data structure

Parameter	Mandatory	Type	Description
id	No	Integer	Screen ID.
left	No	Integer	Coordinates of the screen from left to right.
top	No	Integer	Coordinates of the screen from top to bottom.
xSize	No	Integer	Width of the screen.
ySize	No	Integer	Height of the screen.

Table 5-61 SubscriberInPic data structure

Parameter	Mandatory	Type	Description
index	No	Integer	Sequence number of each screen in continuous presence. The sequence number starts from 1. Default value: 1.
subscriber	No	Array of strings	Participant numbers in each screen. Set this parameter to the value of phone obtained by calling the API for Querying Meeting Details in Real Time .

Parameter	Mandatory	Type	Description
isAssistStream	No	Integer	Whether a stream is a presentation. Default value: 0 . <ul style="list-style-type: none"> 0: no. 1: yes.

Status Codes

Table 5-62 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/display/customMultiPicture?conferenceID=900967789
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
Content-Length: 27
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "manualSet": 1,
  "subscriberInPics": [{
    "index": 2,
    "subscriber": ["+99111252010982686"]
  }],
  "imageType": "Six",
  "multiPicSaveOnly": false
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
```



```
Connection: keep-alive
http_proxy_id: 6346df97898dcd1e9cb205b75f24fe65
Server: api-gateway
X-Request-Id: 0294dd7aedd58db92a23de453cbcde0e
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"manualSet": 0}' 'https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/display/customMultiPicture?
conferenceID=900967789'
```

5.2.17 Switching the Video Display Mode

Description

This API is used to switch the video display policy in a meeting, including broadcasting continuous presence, broadcasting a single pane, and voice-activated continuous presence.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-63 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/display/mode
Transport Protocol	HTTPS

Request Parameters

Table 5-64 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.

Parameter	Mandatory	Type	Location	Description
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
switchMode	Yes	String	Body	Video meeting display mode. <ul style="list-style-type: none"> • Fixed: The specified participant is displayed on the main screen. • VAS: voice activation. The participant who speaks most loudly is displayed on the main screen.
imageType	Yes	Integer	Body	Layout type. The single-screen layout applies only to the voice activation mode. <ul style="list-style-type: none"> • 0: single-screen layout. • 1: continuous presence.

Status Codes

Table 5-65 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/display/mode?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
Content-Length: 52
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "switchMode":"Fixed",
  "imageType":1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 6b7ed88a1b11fe1b4fbb5f05aaff37c4
Server: api-gateway
X-Request-Id: 85ac4acb4942810fd3ce179134cbd4e2
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"switchMode":"Fixed","imageType":"1"}' 'https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/display/mode?conferenceID=914083136'
```

5.2.18 Viewing Participants as the Host

Description

This API is used by the host to view multiple participants in turn, view continuous presence, or focus on one participant. This API can be called only when the host uses a professional meeting terminal (such as TE series).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-66 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/chairView
Transport Protocol	HTTPS

Request Parameters

Table 5-67 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
viewType	Yes	Integer	Body	Operation type. <ul style="list-style-type: none"> ● 0: The host views participants in turn. ● 1: The host views continuous presence. ● 2: The host focuses on a participant.
participantID	No	String	Body	ID of the participant to view. This parameter is mandatory when viewType is set to 2 .

Parameter	Mandatory	Type	Location	Description
switchTime	No	Integer	Body	Interval for displaying participants in turn, in seconds. This parameter is mandatory when viewType is set to 0 . Value range: 10 to 120. Default value: 10 .
status	No	Integer	Body	Starting or stopping displaying participants in turn. This parameter is mandatory when viewType is set to 0 . <ul style="list-style-type: none"> • 0: Stop displaying participants in turn. • 1: Start displaying participants in turn.

Status Codes

Table 5-68 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/chairView?conferenceID=914083136
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
```

```
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "viewType":0
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d
'{"viewType":0,"switchTime":"30","status":1}' https://api.meeting.huaweicloud.com/v1/mmc/control/
conferences/chairView?conferenceID=914083136
```

5.2.19 Starting and Stopping Recording a Meeting

Description

This API is used to start or stop cloud recording in a meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-69 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/record
Transport Protocol	HTTPS

Request Parameters

Table 5-70 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
isRecord	Yes	Integer	Body	Recording status. Default value: 0 . <ul style="list-style-type: none"> 0: Stop recording. 1: Start recording.

Status Codes

Table 5-71 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/record?conferenceID=914047751
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
Content-Length: 21
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

```
{
  "isRecord": 1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: d8deedadd40ffbe0571696f8477e6b11
Server: api-gateway
X-Request-Id: 5e7966300a659a5fa2474f38e923caa
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"isRecord": 1}' 'https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/record?conferenceID=914047751'
```

5.2.20 Starting or Stopping Live Broadcasting a Meeting

Description

This API is used to start or stop live broadcast of a meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-72 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/live
Transport Protocol	HTTPS

Request Parameters

Table 5-73 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
isLive	Yes	Integer	Body	Live broadcast status. Default value: 0 . <ul style="list-style-type: none"> 0: Stop live broadcast. 1: Start live broadcast.

Status Codes

Table 5-74 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/live?conferenceID=914044873
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
```

```
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
{
  "isLive": 1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 2d4c23187071a0491e07d795b0167d15
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/live?conferenceID=914044873
```

5.2.21 Renaming a Participant

Description

This API is used to change the name of a participant.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-75 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/participants/name
Transport Protocol	HTTPS

Request Parameters

Table 5-76 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
participantID	No	String	Body	Participant ID. This parameter is mandatory for participants who have joined the meeting.
number	Yes	String	Body	Participant number.
newName	Yes	String	Body	New name.

Status Codes

Table 5-77 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/participants/name?conferenceID=914044873
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
```

```
user-agent: WeLink-desktop
Content-Length: 107
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
{
  "participantID":"f131536e21ff11eab12735e1cddf6d01",
  "number":"+99111252010982686",
  "newName":"boss Li"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 43469f3f0e83a0c7d64fafea7c7f9034
Server: api-gateway
X-Request-Id: a7f3a6808533d2a011b17070587764e8
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d
'{"participantID":"e45d8c474fbd11e98a8ddbc91eafd8e8","number":"+99111*****","newName":"boss Li"}'
'https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/name?
conferenceID=914044873'
```

5.2.22 Giving Floor to a Participant

Description

This API is used to give the floor to a participant. Only the participant who is given the floor and the host are not muted. This API is used to give floor to a participant. Only one participant can be given the floor at a time.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-78 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/participants/rollCall

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 5-79 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	Participant ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Status Codes

Table 5-80 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/participants/rollCall?
conferenceID=914044873&participantID=f131536e21ff11eab12735e1cddf6d01
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Type: application/json
Content-Length: 28
```

```
Host: api.meeting.huaweicloud.com  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 39  
Connection: keep-alive  
http_proxy_id: 443a4f9afce1f545324609940fab476d  
Server: api-gateway  
X-Request-Id: beed90ee87f869fa0f932ebf30ae3e23
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-  
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' https://  
api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/rollCall?  
conferenceID=914044873&participantID=f131536e21ff11eab12735e1cddf6d01
```

5.2.23 Broadcasting a Participant

Description

This API is used to broadcast a participant. This API is used to broadcast a participant. Only one participant can be broadcasted at a time.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-81 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/participants/broadcast
Transport Protocol	HTTPS

Request Parameters

Table 5-82 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	Participant ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Status Codes

Table 5-83 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/participants/broadcast?
conferenceID=914044873&participantID=f131536e21ff11eab12735e1cddf6d01
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
```

```
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 0873ec5cc25941897758f4accbbe8480
Server: api-gateway
X-Request-Id: 0d29eb126a52b0ad7ebf3df6517e7476
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' 'https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/broadcast?
conferenceID=914044873&participantID=f131536e21ff11eab12735e1cddf6d01'
```

5.2.24 Unmuting a Participant by Themselves

Description

This API is used to configure whether participants can unmute themselves.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-84 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/mute/guestUnMute
Transport Protocol	HTTPS

Request Parameters

Table 5-85 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.

Parameter	Mandatory	Type	Location	Description
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
allowUnmuteByOneself	Yes	Integer	Body	Whether to allow participants to unmute themselves. This parameter is valid only when participants are muted. <ul style="list-style-type: none"> 0: no. 1: yes.

Status Codes

Table 5-86 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/mute/guestUnMute?conferenceID=914083136
Connection: keep-alive
Content-Type: application/json
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
Content-Length: 20
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
{
```

```
"allowUnmuteByOneself":1  
}
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 39  
Connection: keep-alive  
http_proxy_id: f48fd467413ebe6032fa102ba53fcafe  
Server: api-gateway  
X-Request-Id: f6cab3797cb5b310d498c0e97db0f927
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-  
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"allowUnmuteByOneself":1}'  
'https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/mute/guestUnMute?  
conferenceID=914083136'
```

5.2.25 Focusing a Site

Description

This API is used by professional meeting terminals (such as TE series) to focus on another participant.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-87 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/partView
Transport Protocol	HTTPS

Request Parameters

Table 5-88 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	Participant ID of a professional meeting terminal.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
viewType	Yes	Integer	Body	Operation type. <ul style="list-style-type: none"> • 2: The host focuses on a site.
participantID	Yes	String	Body	ID of the participant to focus on.

Status Codes

Table 5-89 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/partView?
conferenceID=914083136&participantID=6a1acfe867f211eaa1cd59f41ff47e04
```

```

Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "viewType":2,
  "participantID":"f131536e21ff11eab12735e1cddf6d01"
}

```

Example Response

```

HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d '{"viewType":2,"participantID":"f131536e21ff11eab12735e1cddf6d01"}' https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/partView?conferenceID=914083136&participantID=6a1acfe867f211eaa1cd59f41ff47e04

```

5.2.26 Locking or Unlocking the Video Source of a Participant

Description

This API is used to lock or unlock the video source of a participant. This API can only be called for professional meeting terminals (such as TE series).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-90 Prototype

Request Method	PUT
-----------------------	-----

Request Address	/v1/mmc/control/conferences/lockView
Transport Protocol	HTTPS

Request Parameters

Table 5-91 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	Participant ID of a professional meeting terminal.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
status	Yes	Integer	Body	Lock flag. <ul style="list-style-type: none"> ● 0: Unlock the video source. ● 1: Lock the video source.
participantID	Yes	String	Body	ID of the participant whose video source is locked.

Status Codes

Table 5-92 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/lockView?
conferenceID=914083136&participantID=6a1acfe867f211eaa1cd59f41ff47e04
Connection: keep-alive
X-Conference-Authorization:stbaf8fa2ea8a1b0e3ab2e007a85a75f88c55d5f6d5c1912dfb
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "status":1,
  "participantID":"f131536e21ff11eab12735e1cddf6d01"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Conference-
Authorization:stb39b3f21898d4972fed86b3f22ac70914a77303def15e126a' -d
'{"status":1,"participantID":"f131536e21ff11eab12735e1cddf6d01"}' https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/
lockView?conferenceID=914083136&participantID=6a1acfe867f211eaa1cd59f41ff47e04
```

5.2.27 Inviting a Participant Using a Meeting ID and Password

Description

This API is used to invite participants using the meeting ID and password. This API is used to invite other terminals to a meeting when the app has obtained the

meeting ID and guest password and the SIP numbers of other terminals by scanning the QR code.

NOTE

This API can be called when the administrator enables **Scan guest QR code to join meetings using hard terminal** on the **Meeting Settings** page of the Management Platform.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-93 Prototype

Request Method	POST
Request Address	/v1/mmc/control/conferences/inviteWithPwd
Transport Protocol	HTTPS

Request Parameters

Table 5-94 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
callNum	Yes	String	Body	SIP number of the invited user.
orgID	No	String	Body	ID of the enterprise to which the invited user belongs.
confID	Yes	String	Body	ID of the current meeting.
pwd	Yes	string	body	Meeting password (host or guest password).

Parameter	Mandatory	Type	Location	Description
numBelongsType	No	Integer	Body	SIP number type. Default value: 0 . <ul style="list-style-type: none"> 0: Huawei Cloud Meeting number. 1: VC meeting number.
isNotOverlayPidName	No	Boolean	Body	Whether the participant name is not superimposed (applicable to the VDC scenario).

Status Codes

Table 5-95 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/inviteWithPwd?conferenceID=914083136
Connection: keep-alive
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "callNum":"+99111253020382685",
  "orgID":"115489",
  "pwd":"*****",
  "numBelongsType":0,
  "isNotOverlayPidName":false,
  "confID":"914083136"
}
```


Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -d '{"callNum":"+8688665599", "orgID":"115489", "pwd":"*****", "numBelongsType":0, "isNotOverlayPidName":false}' https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/inviteWithPwd?conferenceID=914083136
```

5.2.28 Modifying Settings During a Meeting

Description

This API is used to modify meeting settings, including whether meeting sharing is locked and which users can join the meeting.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-96 Prototype

Request Method	PUT
Request Address	/v1/mmc/control/conferences/updateStartedConfConfig
Transport Protocol	HTTPS

Request Parameters

Table 5-97 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
lockSharing	No	Integer	Body	Whether to lock sharing. 0 : Do not lock the meeting. 1 : Lock the meeting.
callInRestriction	No	Integer	Body	Participants who can join the meeting. <ul style="list-style-type: none">0: everyone.2: enterprise users.3: invited users.

Status Codes

Table 5-98 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/control/conferences/updateStartedConfConfig?conferenceID=900244663
Connection: keep-alive
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "lockSharing": 0
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -d '{"lockSharing": 0}' https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/updateStartedConfConfig?conferenceID=900244663
```

5.2.29 Obtaining a Token for Establishing a WebSocket Connection

Description

This API is used to obtain a temporary token for setting up a meeting control WebSocket connection.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-99 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/mmc/control/conferences/wsToken
Transport Protocol	HTTPS

Request Parameters

Table 5-100 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Status Codes

Table 5-101 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 5-102 Response parameters

Parameter	Type	Description
websocketToken	String	Token for establishing a WebSocket connection (valid for one minute and valid only once).

Example Request

```
PUT /v1/mmc/control/conferences/wsToken?conferenceID=900825541
Connection: keep-alive
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
X-Conference-Authorization: cnr351949b429a0b74b032fc2e40977ce77a2037f0391a7a122
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0

{
  "websocketToken": "cnr6e88712f1c89a7b4e3b989596fc420fd43b45bf8ef35c1db"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -H 'x-conference-authorization: *****' -X GET https://api.meeting.huaweicloud.com/v1/mmc/control/conferences/wsToken?conferenceID=981530441
```

5.2.30 Inviting a Participant to Share a Screen

Description

This API is used to invite a participant to share the desktop or cancel the invitation.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-103 Prototype

Request Method	PUT
-----------------------	-----

Request Address	/v1/mmc/control/conferences/participants/share/invite
Transport Protocol	HTTPS

Request Parameters

Table 5-104 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	ID of the invited participant.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
share	Yes	Integer	Body	Invitation flag. <ul style="list-style-type: none"> ● 0: Cancel invitation. ● 1: Invite the participant to share a screen.

Status Codes

Table 5-105 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Example Request

```
PUT /v1/mmc/control/conferences/participants/share/invite?
conferenceID=986947855&participantID=4a5rg64ag5p8pvvnam1rr6m8lqra6a61
Connection: keep-alive
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
x-conference-authorization: Basic
Y25yYjQyNmNhMzgyMWY4YTE4ZTc4ZDU5ZGE1NzJhNDIxNjQ0YzUyZGZkOWE0NzMwMjk4
{
  "share":1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -d '{"share": 1}' https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/share/invite
?conferenceID=986947855&participantID=4a5rg64ag5p8pvvnam1rr6m8lqra6a61
```

5.2.31 Inviting a Participant to Enable or Disable the Camera

Description

This API is used to invite a participant to enable or disable the camera.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 5-106 Prototype

Request Method	PUT
-----------------------	-----

Request Address	/v1/mmc/control/conferences/participants/video
Transport Protocol	HTTPS

Request Parameters

Table 5-107 Parameters

Parameter	Mandatory	Type	Location	Description
conferenceID	Yes	String	Query	Meeting ID.
participantID	Yes	String	Query	ID of the invited participant.
X-Conference-Authorization	Yes	String	Header	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .
status	Yes	Integer	Body	Enabling or disabling the camera. 0 : Invite a participant to enable the camera. 1 : Invite a participant to disable the camera.

Status Codes

Table 5-108 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Example Request

```
PUT /v1/mmc/control/conferences/participants/video?
conferenceID=986947855&participantID=4a5rg64ag5p8pvvnam1rr6m8lqra6a61
Connection: keep-alive
content-type: application/json
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
x-conference-authorization: Basic
Y25yYjQyNmNhMzgyMWY4YTE4ZTc4ZDU5ZGE1NzJhNDIxNjQ0YzUyZGZkOWE0NzMwMjk4
{
  "status": 1
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: 571b4dfceff545fae29aa14cea761079
Server: api-gateway
X-Request-Id: f78b007ec2dabf1498620131c7bc19e0
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -d '{"status": 1}' https://
api.meeting.huaweicloud.com/v1/mmc/control/conferences/participants/video?
conferenceID=986947855&participantID=4a5rg64ag5p8pvvnam1rr6m8lqra6a61
```

5.2.32 Canceling Broadcast

Description

This API is used to cancel broadcast, including canceling broadcasting continuous presence, canceling broadcasting a participant, and canceling the floor given to a participant.

Debugging

You can debug this API in [API Explorer](#).

URI

PUT /v1/mmc/control/conferences/cancelBroadcast

Table 5-109 Query parameter

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.

Request Parameters

Table 5-110 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference-Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Response Parameters

Status code: 400

Table 5-111 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/cancelBroadcast?conferenceID=914370850
```

Example Response

Status code: 400

Invalid parameters.

```
{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.

Status Code	Description
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.33 Admitting Waiting Room Members to a Meeting

Description

This API is used to allow members in the waiting room to join a meeting. You can admit all members or specified members to the meeting.

Debugging

You can debug this API in [API Explorer](#).

URI

PUT /v1/mmc/control/conferences/allowWaitingParticipant

Table 5-112 Query parameter

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.

Request Parameters

Table 5-113 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference-Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Table 5-114 Request body parameters

Parameter	Mandatory	Type	Description
participantID	No	String	Waiting room member ID. The value is obtained by listening to the event of waiting room members in Meeting-Level Event Push .
allowAll	No	Boolean	Whether all members in the waiting room can join the meeting. <ul style="list-style-type: none"> false: Only specific members can join the meeting. true: All members can join the meeting.

Response Parameters

Status code: 400

Table 5-115 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/allowWaitingParticipant?conferenceID=914370850
{
  "allowAll": true
}
```

Example Response

Status code: 400

Invalid parameters.

```
{
  "error_code": "MMC.111072065",
  "error_msg": "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.34 Moving a Participant to the Waiting Room

Description

This API is used to move a participant from a meeting to the waiting room.

Debugging

You can debug this API in [API Explorer](#).

URI

PUT /v1/mmc/control/conferences/moveToWaitingRoom

Table 5-116 Query parameter

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.

Request Parameters

Table 5-117 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference-Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Table 5-118 Request body parameter

Parameter	Mandatory	Type	Description
participantID	Yes	String	Participant ID.

Response Parameters

Status code: 400

Table 5-119 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/moveToWaitingRoom?conferenceID=914370850
{
  "participantID" : "818571d9544e11eab86fff8f8fdcd76"
}
```

Example Response

Status code: 400

Invalid parameters.

```
{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.35 Allowing Local Recording

Description

This API is used to allow or forbid local recording (non-cloud recording) on participants' clients.

Debugging

You can debug this API in [API Explorer](#).

URI

PUT /v1/mmc/control/conferences/allowClientRecord

Table 5-120 Query parameters

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.
participantID	Yes	String	Participant ID.

Request Parameters

Table 5-121 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference-Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Table 5-122 Request body parameter

Parameter	Mandatory	Type	Description
allowClientRecord	Yes	Integer	<ul style="list-style-type: none"> 0: Cancel the recording permission of participants. 1: Allow participants to record the meeting on their clients. Minimum value: 0 Maximum value: 1

Response Parameters

Status code: 400

Table 5-123 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/allowClientRecord?
conferenceID=914370850&participantID=818571d9544e11eab86ff8f8fdcde76
```

```
{
  "allowClientRecord" : 1
}
```

Example Response

Status code: 400

Invalid parameters.

```
{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.36 Querying a Continuous Presence Layout

Description

This API is used to query a continuous presence layout saved in a meeting.

Debugging

You can debug this API in [API Explorer](#).

URI

GET /v1/mmc/control/conferences/layOut

Table 5-124 Query parameter

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.

Request Parameters

Table 5-125 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference- Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Response Parameters

Status code: 200

Table 5-126 Response body parameters

Parameter	Type	Description
returnCode	Integer	Result code. <ul style="list-style-type: none">● 0: successful.● Other values: failed. Minimum value: 0 Maximum value: 2147483647
returnDesc	String	Result description. <ul style="list-style-type: none">● Success: The operation succeeds.● Other values: failure cause.
picLayouts	Array of RestPicLayout objects	Continuous presence layout.

Table 5-127 RestPicLayout

Parameter	Type	Description
switchTime	Integer	Interval for displaying participants in turn, in seconds. Minimum value: 10
picNum	Integer	Number of screens in the continuous presence. Minimum value: 1
layOutName	String	Name of the continuous presence layout.
imageType	String	Layout type.
uuid	String	Layout UUID.
subscriberInPics	Array of PicInfoNotify objects	Screen list.

Table 5-128 PicInfoNotify

Parameter	Type	Description
index	Integer	Number of each screen in continuous presence. The number starts from 1 .
id	Array of strings	SIP numbers of the participants in each screen. The SIP numbers can be obtained by calling the API for Querying the Corporate Directory .
share	Integer	Whether a stream is a presentation. <ul style="list-style-type: none"> • 0: no. • 1: yes.

Status code: 400

Table 5-129 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/layOut?conferenceID=914370850
```

Example Response

Status code: 200

Operation successful.

```
{
  "returnCode" : 0,
  "returnDesc" : "Success",
  "picLayouts" : [ {
    "uuid" : "aa3aaaf349f511edbea72fd2b9a0ad61",
    "imageType" : "Two",
    "switchTime" : 10,
    "layOutName" : "my_saved_layout",
    "subscriberInPics" : [ {
      "index" : 1,
      "id" : [ "+99111221231895886#Desktop" ],
      "share" : 0
    }, {
      "index" : 2,
      "id" : [ "+99111221231894887#Desktop" ],
      "share" : 0
    }
  ]
} ]
}
```

Status code: 400

Invalid parameters.

```
{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.37 Saving a Continuous Presence Layout

Description

This API is used to save a continuous presence layout. The continuous presence layout saved in a meeting can be used only in the meeting. After the meeting ends, the saved continuous presence layout is released.

Debugging

You can debug this API in [API Explorer](#).

URI

PUT /v1/mmc/control/conferences/layOut

Table 5-130 Query parameter

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.

Request Parameters

Table 5-131 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference- Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Table 5-132 Request body parameter

Parameter	Mandatory	Type	Description
restPicLayout	No	RestPicLayout object	Information about the continuous presence layout.

Table 5-133 RestPicLayout

Parameter	Mandatory	Type	Description
switchTime	No	Integer	Interval for displaying participants in turn, in seconds. Minimum value: 10
picNum	No	Integer	Number of screens in the continuous presence. Minimum value: 1
layOutName	No	String	Name of the continuous presence layout.

Parameter	Mandatory	Type	Description
imageType	No	String	Layout type.
uuid	No	String	Layout UUID.
subscriberInPics	No	Array of PicInfoNotify objects	Screen list.

Table 5-134 PicInfoNotify

Parameter	Mandatory	Type	Description
index	No	Integer	Number of each screen in continuous presence. The number starts from 1 .
id	No	Array of strings	SIP numbers of the participants in each screen. The SIP numbers can be obtained by calling the API for Querying the Corporate Directory .
share	No	Integer	Whether a stream is a presentation. <ul style="list-style-type: none"> • 0: no. • 1: yes.

Response Parameters

Status code: 400

Table 5-135 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
PUT https://{endpoint}/v1/mmc/control/conferences/layOut?conferenceID=914370850
{
  "restPicLayout": {
    "imageType": "Two",
    "switchTime": 10,
    "layOutName": "my_saved_layout",
```

```

"subscriberInPics" : [ {
  "index" : 1,
  "id" : [ "+99111221231895886" ],
  "share" : 0
}, {
  "index" : 2,
  "id" : [ "+99111221231894887" ],
  "share" : 0
} ]
}
}

```

Example Response

Status code: 400

Invalid parameters.

```

{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}

```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

5.2.38 Deleting a Continuous Presence Layout

Description

This API is used to delete a continuous presence layout saved in a meeting.

Debugging

You can debug this API in [API Explorer](#).

URI

DELETE /v1/mmc/control/conferences/layOut

Table 5-136 Query parameters

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.
uuiD	Yes	String	Layout UUID.

Request Parameters

Table 5-137 Request header parameter

Parameter	Mandatory	Type	Description
X-Conference- Authorization	Yes	String	Meeting control token, which can be obtained by calling the API for Obtaining a Meeting Control Token .

Response Parameters

Status code: 400

Table 5-138 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.

Example Request

```
DELETE https://{endpoint}/v1/mmc/control/conferences/layOut?
conferenceID=914370850&uuiD=aa3aaaf349f511edbea72fd2b9a0ad61
```

Example Response

Status code: 400

Invalid parameters.

```
{
  "error_code" : "MMC.111072065",
  "error_msg" : "CONF_NOT_FOUND_OR_AUTH_FAILED"
}
```

Status Codes

Status Code	Description
200	Operation successful.
400	Invalid parameters.

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

6 Meeting Event Push

6.1 Meeting-Level Event Push

6.1.1 Overview

A third-party application can subscribe to information about a meeting through WebSocket APIs. When the information changes, the Huawei Cloud Meeting server pushes the changes to the third-party application. Currently, the following information can be pushed:

- Basic meeting information
- Meeting status
- Participants invited during meeting scheduling
- Online participants
- Speaker status
- Meeting media quality
- Invitation results
- Live captions
- Waiting room members
- Interpreter groups

6.1.2 Example

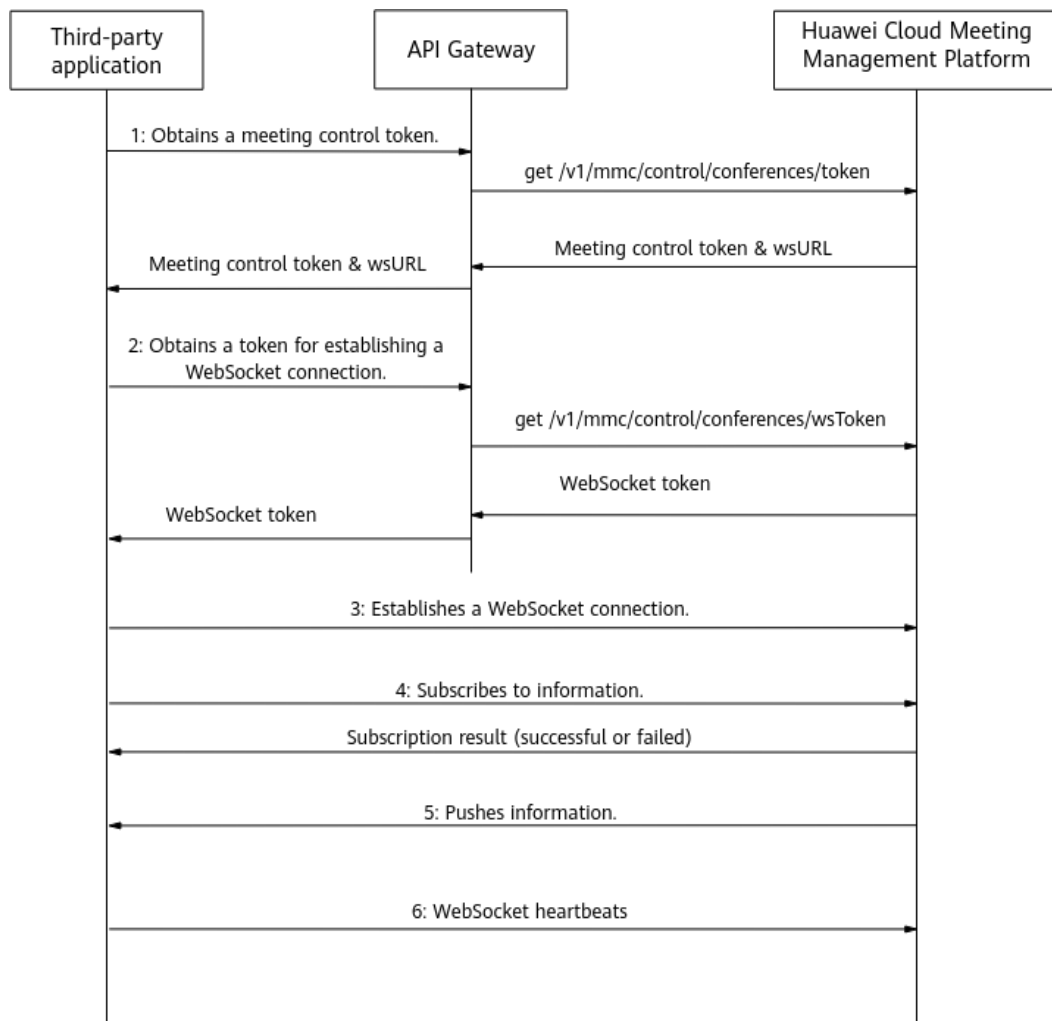
Scenarios

This section describes the sequence of calling APIs for establishing a WebSocket connection, subscribing to information, pushing information, and maintaining connection.

Service Process

The following figure shows the WebSocket connection establishment, subscription, and information push process.

Figure 6-1 Process of pushing WebSocket messages



1. A third-party application obtains a meeting control token and the server URL required for establishing a WebSocket connection using the meeting ID and host password. For details, see [Obtaining a Meeting Control Token](#).
2. The third-party application uses the meeting control token to obtain a token for establishing a WebSocket connection. For details, see [Obtaining a Token for Establishing a WebSocket Connection](#).
3. The third-party application establishes a WebSocket connection with the server.
4. The third-party application subscribes to information that needs to be pushed by the Huawei Cloud Meeting server.
5. The Huawei Cloud Meeting server pushes the subscribed-to information.
6. The third-party application sends a heartbeat message at least once within 180 seconds.

Code Example 1

Code for WebSocket connection establishment, subscription, and message delivery and reception

```
<!DOCTYPE HTML>
<html>
  <head>
    <meta charset="utf-8">
    <title>WebSocket Connection Establishment and Message Delivery and Reception</title>
    <script type="text/javascript">
      function WebSocketTest()
      {
        if ("WebSocket" in window)
        {
          // Establish a WebSocket connection.
          var confID = "900964776";
          var tempToken = "&tmpToken=" + "Obtaining a Token for Establishing a WebSocket Connection";
          var uri = "wss://100.94.23.40:443/cms/open/websocket/confctl/increment/conn?confID=" + confID +
tempToken;
          var ws = new WebSocket(uri);

          ws.onopen = function()
          {
            // WebSocket connection established. Send a subscription message.
            var senddata = JSON.stringify({
              sequence: "000000000000000000002611382273415",
              action: "Subscribe",
              data: JSON.stringify({
                subscribeType: [
                  "ConfBasicInfoNotify",
                  "ConfDynamicInfoNotify",
                  "ParticipantsNotify",
                  "AttendeesNotify",
                  "SpeakerChangeNotify",
                  "NetConditionNotify",
                  "CustomMultiPicNotify",
                  "InviteResultNotify",
                  "InterpreterGroupNotify",
                  "NetworkQualityNotify"
                ],
                confToken: "Obtaining a Meeting Control Token",
              }),
            });
            ws.send(senddata);
            alert("Sending subscription message..." + senddata);
          };

          ws.onmessage = function (evt)
          {
            var received_msg = evt.data;
            // alert("Data received." + received_msg);
          };
          else
          {
            // The browser does not support WebSocket.
            alert("Your browser does not support WebSocket.");
          }
        }
      }
    </script>
  </head>
  <body>
    <div id="meeting">
      <a href="javascript:WebSocketTest()">WebSocket connection establishment and subscription</a>
    </div>
  </body>
</html>
```

Code Example 2

Code for connection establishment on a Java WebSocket client and message delivery and reception

```
import java.io.IOException;
import java.net.URI;
import java.net.URISyntaxException;
import java.security.KeyManagementException;
import java.security.NoSuchAlgorithmException;
import java.security.cert.CertificateException;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

import javax.net.ssl.SSLContext;
import javax.net.ssl.SSLSocketFactory;
import javax.net.ssl.TrustManager;
import javax.net.ssl.X509TrustManager;

import org.java_websocket.WebSocket;
import org.java_websocket.client.WebSocketClient;
import org.java_websocket.handshake.ServerHandshake;

import com.google.gson.Gson;

public class WebSocketClientDemo extends WebSocketClient{

    public WebSocketClientDemo(String url) throws URISyntaxException {
        super(new URI(url));
    }

    @Override
    public void onOpen(ServerHandshake shake) {
        System.out.println("Hand shake!");
        for(Iterator<String> it = shake.iterateHttpFields(); it.hasNext();) {
            String key = it.next();
            System.out.println(key + ":" + shake.getFieldValue(key));
        }
    }

    @Override
    public void onMessage(String paramString) {
        System.out.println("receive msg: " + paramString);
    }

    @Override
    public void onClose(int paramInt, String paramString, Boolean paramBoolean) {
        System.out.println("Channel close!");
    }

    @Override
    public void onError(Exception e) {
        System.out.println("error: " + e);
    }

    public static void main(String[] args) throws Exception{
        try {
            // Establish a WebSocket connection.
            String confID = "900964776";
            String tempToken = "&tmpToken=" + Obtaining a Token for Establishing a WebSocket Connection;
            String url = "wss://100.94.23.40:443/cms/open/websocket/confctl/increment/conn?confID=" + confID
                + tempToken;
            WebSocketClientDemo client = new WebSocketClientDemo(url);
            client.connect();

            while (!client.getReadyState().equals(WebSocket.READystate.OPEN)) {
                System.out.println("Not open yet");
                Thread.sleep(100);
            }

            System.out.println("WebSocket channel connected!");
        }
    }
}
```

```
// WebSocket connection established. Send a subscription message.
Gson gson = new Gson();

List<SubscribeType> subscribeTypes = new ArrayList<>();
subscribeTypes.add(SubscribeType.ConfBasicInfoNotify);
subscribeTypes.add(SubscribeType.ConfDynamicInfoNotify);
subscribeTypes.add(SubscribeType.ParticipantsNotify);
subscribeTypes.add(SubscribeType.AttendeesNotify);
subscribeTypes.add(SubscribeType.SpeakerChangeNotify);
subscribeTypes.add(SubscribeType.NetConditionNotify);
subscribeTypes.add(SubscribeType.InviteResultNotify);

SubscribeReq subscribeReq = SubscribeReq.builder()
    .subscribeType(subscribeTypes)
    .confToken(Obtaining a Meeting Control Token)
    .build();
SubscribeMsgFrame subscribeMsgFrame = SubscribeMsgFrame.builder()
    .action("Subscribe")
    .sequence("0000000000000000002611382271289")
    .data(gson.toJson(subscribeReq))
    .build();

String jsonStr = gson.toJson(subscribeMsgFrame);
client.send(jsonStr);
} catch (URISyntaxException e) {
    e.printStackTrace();
}
}
```

Connection establishment and message delivery and reception on a Java WebSocket client
SubscribeReq.java

```
-----
import java.util.List;

import lombok.Builder;
import lombok.Getter;
import lombok.Setter;

@Getter
@Setter
@Builder
public class SubscribeReq {

    /**
     * Subscription type
     */
    List<SubscribeType> subscribeType;

    /**
     * Meeting token
     */
    String confToken;
}
```

```
SubscribeMsgFrame .java
-----
import lombok.Builder;
import lombok.Getter;
import lombok.Setter;

@Getter
@Setter
@Builder
public class SubscribeMsgFrame {

    /**
     * Message type
     */
}
```

```
String action;  
  
/**  
 * Random sequence number of a message  
 */  
String sequence;  
  
/**  
 * Message body  
 */  
String data;  
}
```

6.1.3 APIs

6.1.3.1 Establishing a WebSocket Connection

Description

This API is used to establish a meeting control WebSocket channel with the meeting server. You can obtain a connection establishment URL (wsURL) by calling the API for [obtaining a meeting control token](#) and use the wsURL in the prefix of the connection establishment request. If the request authentication fails, the meeting server automatically closes the WebSocket channel.

NOTE

The server automatically releases the WebSocket connection after the meeting ends.

Prototype

Table 6-1 Prototype

Request Method	GET
Request Address	/cms/open/websocket/confctl/increment/conn
Transport Protocol	WSS

Request Parameters

Table 6-2 Parameters

Parameter	Mandatory	Type	Location	Description
confID	Yes	String	Query	Meeting ID.

Parameter	Mandatory	Type	Location	Description
tmpToken	Yes	String	Query	Token used for establishing a WebSocket connection. For details, see the wsToken API.

Example Request

```
GET wss://100.94.23.40/cms/open/websocket/confctl/increment/conn?
confID=900726255&tmpToken=cnr6e88712f1c89a7b4e3b989596fc420fd43b45bf8ef35c1db HTTP/1.1
Host: 100.94.23.40
Connection: Upgrade
Pragma: no-cache
Cache-Control: no-cache
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
87.0.4280.88 Safari/537.36
Upgrade: websocket
Origin: https://100.94.23.40
Sec-WebSocket-Version: 13
Accept-Encoding: gzip, deflate, br
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8
Cookie: CONFPORTALROUTE=canary; supportCookie=1
Sec-WebSocket-Key: wJ34Os631BNGJ1R72gQ/mQ==
Sec-WebSocket-Extensions: permmessage-deflate; client_max_window_bits
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET 'wss://100.94.23.40/cms/open/websocket/confctl/increment/conn?
confID=900726255&tmpToken=cnr6e88712f1c89a7b4e3b989596fc420fd43b45bf8ef35c1db'
```

6.1.3.2 Subscribing to Messages

Subscription Message Frame

Table 6-3 Message frame for subscribing to information

Parameter	Mandatory	Type	Description
action	Yes	String	"Subscribe"
sequence	Yes	String	Random sequence number of a message. The recommended length is 20 to 30.
data	Yes	SubscribeData object	Subscription data.

Table 6-4 SubscribeData data structure

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.
subscribeType	Yes	Array of strings	Subscription type. The options are as follows: ConfBasicInfoNotify : basic meeting information. ConfDynamicInfoNotify : meeting status. ParticipantsNotify : online participant information. AttendeesNotify : information of participants invited during meeting scheduling. SpeakerChangeNotify : speaker status. NetConditionNotify : meeting media quality status. InviteResultNotify : invitation results. RealTimeSubtitleNotify : live captions. WaitingListNotify : list of waiting room members. InterpreterGroupNotify : interpreter group information.
confToken	Yes	String	Meeting control token.

Subscription Message Example

```
{
  "sequence": "00000000000000001702459164879",
  "action": "Subscribe",
  "data": "{\"subscribeType\": [\"ConfBasicInfoNotify\", \"ConfDynamicInfoNotify\", \"ParticipantsNotify\", \"AttendeesNotify\", \"SpeakerChangeNotify\", \"NetConditionNotify\", \"CustomMultiPicNotify\", \"InviteResultNotify\", \"InterpreterGroupNotify\", \"NetworkQualityNotify\", \"WaitingListNotify\"], \"confToken\": \"Basic c3RiZjYyMjZlZWU4YjQ4YjllNTNmNGRkYWYzMGVIMWE5YzdlZjJhZTU4ZTkzMDI0MzRh\"}"
}
```

Successful Subscription Example

```
{
  "action": "Subscribe",
  "sequence": "00000000000000001611747313677",
  "data": {
    "returnCode": 0,
    "returnDesc": "SUCCESS"
  }
}
```


6.1.3.3 Pushing Basic Meeting Information

Table 6-5 Message frame for pushing basic meeting information

Parameter	Type	Description
action	String	"ConfBasicInfoNotify"
version	Long	Message version number, which is identified by the timestamp (in milliseconds) when the message is generated.
createTime	Long	Timestamp when a message is generated, in milliseconds.
msgID	String	Unique message ID.
msgMode	Integer	Message mode. The value is fixed at 0 . 0 : full message.
confID	String	ID of the subscribed-to meeting.
displayID	String	Meeting display ID. (For a meeting with a random ID, the value of displayID is the same as that of confID . For a meeting with a fixed ID, the value of displayID is the fixed ID.)
title	String	Meeting topic.
startTime	String	Meeting start time (UTC time, in milliseconds).
pwds	Array of ConfPwdInfo objects	Meeting passwords.
recType	Integer	Live broadcast type. The options are as follows: 0 : disabled. 1 : recording. 2 : recording and live broadcast. 3 : live broadcast only.
media	Integer	Media type of the meeting. The options are as follows: 1 : voice. 2 : video.
owner	String	Meeting scheduler.
ownerID	String	UUID of the scheduler.

Parameter	Type	Description
userType	Integer	<p>Role of the meeting scheduler.</p> <p>0: system administrator.</p> <p>1: SP administrator.</p> <p>2: enterprise member.</p> <p>3: user registered using a mobile number or email address. They have the same permissions as enterprise members.</p> <p>4: user who uses a temporary account, which has obtained a temporary token using a verification code.</p> <p>10: enterprise device.</p> <p>11: anonymous user.</p> <p>12: smart TV user.</p> <p>13: IdeaHub.</p> <p>14: whiteboard (SmartRooms).</p>
supportWatermark	Integer	<p>Whether to enable watermarks on the shared screen.</p> <p>0: Disable watermarks.</p> <p>1: Enable watermarks.</p>
scheduledStartTime	String	Start time of a scheduled meeting (UTC time, in milliseconds).
guestJoinUri	String	Link for guests to join the meeting.
callInRestriction	Integer	<p>Participants who can join the meeting.</p> <ul style="list-style-type: none"> ● 0: everyone. ● 2: enterprise users. ● 3: invited users.
confMode	String	<p>Meeting type.</p> <ul style="list-style-type: none"> ● COMMON: common meeting. ● RTC: RTC meeting.
realTimeSubtitle	Integer	<p>Whether live captions are supported.</p> <ul style="list-style-type: none"> ● 0: unsupported. ● Other values: supported.

Table 6-6 ConfPwdInfo data structure

Parameter	Type	Description
role	String	Meeting role. The options are as follows: chair : meeting host. general : common participant.
pwd	String	Password for a participant role, which is in plaintext mode.

Example of Pushing Basic Meeting Information

```
{
  "displayID": "900487914",
  "title": "Tom's Meeting",
  "startTime": "1611988484164",
  "guestJoinUri": "https://100.95.188.184:443/#/j/900487914/29a3cb420d228e2a507bb40f81c36157f07659389f3bf570",
  "pws": [{
    "role": "chair",
    "pwd": "*****"
  }, {
    "role": "general",
    "pwd": "*****"
  }],
  "recType": 1,
  "media": 2,
  "owner": "Tom",
  "orgID": "44252",
  "aiRecType": 0,
  "callInRestriction": 0,
  "audienceCallInRestriction": 0,
  "confMode": "COMMON",
  "webinar": false,
  "realTimeSubtitle": 0,
  "bignumMultiPicSwitch": true,
  "partViewSwitch": true,
  "simultaneousInterpretation": 0,
  "supportWatermark": 1,
  "userType": 2,
  "ownerID": "271682cfdbe14fa9ae3a8b25f7502627",
  "scheduledStartTime": "1611988483700",
  "supportCohost": 1,
  "supportClientRecord": 1,
  "inviteShareSwitch": true,
  "confPortalCapabilities": "1",
  "supportWaitingRoom": false,
  "confID": "900487914",
  "msgID": "239fbd1662d111eb980abbd127030a68",
  "msgMode": 0,
  "version": 1611993595029,
  "createTime": 1611993595029,
  "action": "ConfBasicInfoNotify"
}
```

6.1.3.4 Pushing Meeting Status Information

Table 6-7 Message frame for pushing meeting statuses

Parameter	Type	Description
action	String	"ConfDynamicInfoNotify"
version	Long	For a full message, the value is the timestamp (in milliseconds) when the message is generated. For an incremental message, the value is a sequence number in ascending order.
createTime	Long	Timestamp when a message is generated, in milliseconds.
msgID	String	Unique message ID.
msgMode	Integer	Message mode. The value is fixed at 0 . 0 : full message. 1 : incremental message.
confID	String	ID of the subscribed-to meeting.
endTime	String	Meeting end time (UTC time, in milliseconds).
mode	String	Meeting mode. The options are as follows: FREE : free mode. FIXED : broadcasting continuous presence in a fixed screen. ROLLCALL : giving the floor. BROADCAST : broadcasting a participant.
state	String	Meeting status. The options are as follows: Schedule : The meeting is to be held. Created : The meeting has been created and is in progress. Destroyed : The meeting has ended.
vas	Integer	Whether voice activation is enabled. The options are as follows: 0 : disabled. 1 : enabled.
lock	Integer	Meeting locking status. The options are as follows: 0 : unlocked. 1 : locked.

Parameter	Type	Description
mute	Integer	Meeting mute status (whether participants are automatically muted after they join the meeting). The options are as follows: 0 : unmuted. 1 : muted.
lockSharing	Integer	Status of screen sharing locking. The options are as follows: 0 : unlocked. 1 : locked.
canUnmute	Integer	Whether participants can unmute themselves when all participants in the meeting are muted. The options are as follows: 0 : no. 1 : yes.
chairView	Integer	Whether participants are displayed to the host in turn. The options are as follows: 0 : no. 1 : yes.
picNum	String	Number of screens displayed in continuous presence.
partViewNum	Integer	Number of participants that are being focused on.
maxPartViewNum	Integer	Maximum number of participants that can be focused on.
recState	Integer	Recording status. The options are as follows: 0 : disabled. 1 : enabled.
multiPic	MultiPicInfoNotify object	Custom continuous presence.
confIMGroupId	String	ID of the chat group in the meeting.
forbiddenChat	Integer	Whether chat is disabled in the meeting. The options are as follows: 0 : Chat is enabled. 1 : Chat is disabled.

Parameter	Type	Description
recOccurred	Integer	Whether the meeting has already been recorded. 0 : no. 1 : yes.
realTimeSubtitle	Integer	Whether live captions are enabled. 0 : disabled. Other values: enabled.

Table 6-8 MultiPicInfoNotify data structure

Parameter	Type	Description
picInfos	Array of PicInfoNotify objects	List of information about a single screen.
picNum	Integer	Number of screens.
period	Integer	Interval of displaying participants in turn.

Table 6-9 PicInfoNotify data structure

Parameter	Type	Description
index	Integer	Screen index.
id	Array of strings	List of participant IDs in the screen.
share	Integer	0 : non-presentation. 1 : presentation.

Example of Pushing Meeting Statuses

```
{
  "state": "Created",
  "endTime": "1611994784164",
  "mode": "FREE",
  "vas": 1,
  "picNum": 16,
  "lock": 0,
  "mute": 1,
  "lockSharing": 0,
  "canUnmute": 1,
  "chairView": 0,
  "recState": 0,
  "aiRecState": 0,
  "enableShareSetting": 1,
  "callInRestriction": 0,
```

```

"audienceCallInRestriction": 0,
"forbiddenChat": 0,
"realTimeSubtitle": 0,
"audienceTotalCount": 0,
"simultaneousInterpretation": 0,
"lanChannels": [],
"allowAudience": false,
"pause": false,
"partViewNum": 0,
"maxPartViewNum": 8,
"audienceVideoLayout": "speakerVideoLayout",
"recOccurred": 0,
"clientRecState": 0,
"clientRecMode": 0,
"waitingRoomState": 0,
"showAudienceMode": 0,
"audienceCountMultiple": 0,
"audienceCountReal": 0,
"confID": "900487914",
"msgID": "23a1dff762d111eb980a9172a5e3d682",
"msgMode": 0,
"version": 1611993595043,
"createTime": 1611993595043,
"action": "ConfDynamicInfoNotify"
}

```

6.1.3.5 Pushing Online Participant Information

Table 6-10 Message frame for pushing online participant information

Parameter	Type	Description
action	String	"ParticipantsNotify"
version	Long	For a full message, the value is the timestamp (in milliseconds) when the message is generated. For an incremental message, the value is a sequence number in ascending order.
createTime	Long	Timestamp when a message is generated, in milliseconds.
msgID	String	Unique message ID.
msgMode	Integer	Message mode. The value is fixed at 0 . 0 : full message. 1 : incremental message.
confID	String	ID of the subscribed-to meeting.
data	Array of ParticipantNotifyDTO objects	List of online participants.

Table 6-11 ParticipantNotifyDTO data structure

Parameter	Type	Description
pid	String	Participant ID.
mode	Integer	0 : Refresh the participant information. 1 : Remove the participant.
pinfoMap	Map<String,String>	Keys and values of variables in the participant information.

Table 6-12 Description of the keys and values of pinfoMap

Key	Value Type	Description
NAME	String	Participant name or alias. The value can contain up to 96 characters.
TEL	String	Participant ID.
ROLE	String	Participant roles. Enumerated values: 1 : meeting host. 0 : common participant. 2 : attendee.
STATE	String	Participant status. Enumerated values: 0 : The participant is in the meeting. 1 : The participant is being called.
HAND	String	Hand raising status of the participant. Values: 1 : Hand raised. 0 : Hand lowered.
BROADCAST	String	Broadcast status of the participant. Values: 0 : The participant is not being broadcast. 1 : The participant is being broadcast.
ROLLCALL	String	Floor-giving status of the participant. Values: 0 : The participant is not given the floor. 1 : The participant is given the floor.
SHARE	String	Data sharing status of the participant. Values: 0 : The participant is not sharing a screen. 1 : The participant is sharing a screen.
ADDTIME	String	Time when the participant joins the meeting (UTC time, in milliseconds).

Key	Value Type	Description
MUTE	String	Whether the participant is muted. The options are as follows: 0 : no. 1 : yes
VIDEO	String	Whether the participant is a video site. Values: 1 : yes. 0 : no.
M	String	M number of the participant.
T	String	T number of the participant.
ANONYMOUS	String	0 : common participant. 1 : anonymous participant.
LOCALREC	String	0 : The participant does not record the meeting locally. 1 : The participant is recording the meeting locally.
CLICENT_LOGIN_TYPE	String	Terminal type. Desktop : PC. Mobile : mobile phone. Pad : tablet. OtherType : other.
VIEW_TYPE	String	Focusing mode. 0 : The participant does not focus on any screen. 1 : The participant views continuous presence. 2 : The participant focuses on the screen of a participant.
PART_VIEW_SRC	String	ID of the participant being focused on.
IS_SVC	String	Whether the participant is an SVC site. 0 : AVC site. 1 : SVC site.
ORG_ID	String	Enterprise ID.

Key	Value Type	Description
CLIENT_CAP ABILITIES	String	Terminal capability set, which is transparently transmitted to each terminal and the Management Platform through the online participant list. This parameter is carried when capabilities are supported. Multiple capabilities are separated by commas (,). The value contains up to 1024 characters. 1: co-host. 2: screen sharing invitation. 3: role switch between panelists and attendees. 4: waiting room. 5: invitation to unmute the microphone. 6: invitation to enable the camera.
ACCOUNT_ID	String	Participant UUID.
ACCOUNT	String	Participant account.
THIRDACCOUNT	String	Third-party account.

Example of Pushing Online Participant Information

```
{
  "data": [{
    "pid": "uzr571a9brwu11cvcibvru5a7r7rryiy",
    "mode": 0,
    "pinfoMap": {
      "CAMERASTATE": "1",
      "ORG_ID": "44252",
      "LOCKED_VIEW": "0",
      "MUTE": "1",
      "ACCOUNT_ID": "271682cfdb14fa9ae3a8b25f7502627",
      "LOCALREC": "0",
      "TEL": "+86571299676493248",
      "ALLOW_CLIENT_REC": "0",
      "STATE": "0",
      "SHARE": "0",
      "ANONYMOUS": "0",
      "ADDTIME": "1611988486336",
      "NAME": "Tom",
      "CLIENT_REC_STATE": "0",
      "CLIENT_CAPABILITIES": "1,3",
      "ROLE_SWITCH_OVER": "0",
      "RTC_USER_ID": "uzr571a9brwu11cvcibvru5a7r7rryiy",
      "CLIENT_LOGIN_TYPE": "Desktop",
      "T": "1",
      "ACCOUNT": "zhagsan",
      "BROADCAST": "0",
      "IS_COHOST": "0",
      "HAND": "0",
      "IS_SVC": "1",
      "ROLLCALL": "0",
      "M": "1",
      "VIDEO": "1",
      "ROLE": "1",

```

```

        "THIRDACCOUNT": "zhangsan",
        "INVITE_SHARE_STATE": "0"
    }
  },
  "confID": "900487914",
  "msgID": "23a429e862d111eb980a11b5be5aab3c",
  "msgMode": 0,
  "version": 1611993595058,
  "createTime": 1611993595058,
  "action": "ParticipantsNotify"
}

```

6.1.3.6 Pushing Information of Participants Invited During Meeting Scheduling

Table 6-13 Message frame for pushing information of participants invited during meeting scheduling

Parameter	Type	Description
action	String	"AttendeesNotify"
version	Long	For a full message, the value is the timestamp (in milliseconds) when the message is generated. For an incremental message, the value is a sequence number in ascending order.
createTime	Long	Timestamp when a message is generated, in milliseconds.
msgID	String	Unique message ID.
msgMode	Integer	Message mode. 0 : full message. 1 : incremental message.
confID	String	ID of the subscribed-to meeting.
data	Array of AttendeeNotifyDTO objects	Information about all participants invited during meeting scheduling.

Table 6-14 AttendeeNotifyDTO data structure

Parameter	Type	Description
userUUID	String	Participant UUID.
participantID	String	Participant ID.
mode	Integer	0 : Refresh the participant information. 1 : Remove the participant.
phone	String	Called number.

Parameter	Type	Description
name	String	Participant name or alias. The value can contain up to 96 characters.
accountId	String	Participant account, which is optional.
role	Integer	Participant role in the meeting. 0 : common participant. 1 : meeting host.
email	String	Email address, which contains up to 255 characters.
sms	String	Mobile number for receiving SMS notifications. The value contains up to 32 characters.
isMute	Integer	Whether to mute participants automatically when they join the meeting. 0 : no. 1 : yes.
isAutoInvite	Integer	Whether to automatically invite participants when the meeting starts. The default value is defined in the enterprise-level configuration. 0 : Do not automatically invite participants. 1 : Automatically invite participants.
type	String	Number type. normal : voice, HD video, and SD video participant address (default). terminal : meeting room or hard terminal. outside : external participant. anonymous : anonymous participant. telepresence : uni-screen or tri-screen telepresence participant address. mobile : mobile number. telephone : fixed-line number. customnumber : SIP number of an external participant. board : Board.
address	String	Hard terminal meeting room information.
deptUUID	String	Department UUID, which contains up to 64 characters.
deptName	String	Department name, which contains up to 128 characters.
orgId	String	Enterprise ID.

Parameter	Type	Description
thirdAccount	String	Third-party account.

Example of Pushing Information of Participants Invited During Meeting Scheduling

```
{
  "data": [{
    "mode": 0,
    "orgID": "44252",
    "thirdAccount": "zhangsan",
    "phone": "+86571*****",
    "accountId": "zhangsan",
    "userUUID": "271682cfdbe14fa9ae3a8b25f7502627",
    "name": "Tom",
    "role": 1,
    "isMute": 0,
    "isAutoInvite": 0,
    "type": "normal",
    "deptUUID": "ff808081689de0d901689df549fe0009",
    "deptName": "department2",
    "hidePhone": false,
    "isNotOverlayPidName": false
  }],
  "confID": "900487914",
  "msgID": "23a450f962d111eb980aa1747c1cf8f9",
  "msgMode": 0,
  "version": 1611993595059,
  "createTime": 1611993595059,
  "action": "AttendeesNotify"
}
```

6.1.3.7 Pushing Speaker Status Information

Table 6-15 Message frame for pushing speaker status information

Parameter	Type	Description
action	String	"SpeakerChangeNotify"
version	Long	For a full message, the value is the timestamp (in milliseconds) when the message is generated. For an incremental message, the value is a sequence number in ascending order.
createTime	Long	Timestamp when a message is generated, in milliseconds.
msgID	String	Unique message ID.
msgMode	Integer	Message mode. The value is fixed at 0 . 0 : full message. 1 : incremental message.
confID	String	ID of the subscribed-to meeting.

Parameter	Type	Description
data	Set<SpeakerNotifyDTO>	List of speakers (the three participants who speak loudest). For details, see the Speaker data structure. If this parameter is not carried, no one speaks.

Table 6-16 SpeakerNotifyDTO data structure

Parameter	Type	Description
pid	String	Unique participant identifier.
speakingVolume	Integer	Volume, which is used to sort speakers.

Example of Pushing Speaker Status Information

```
{
  "data": [{
    "pid": "w5v17oiroco5zy9boia91yar1a17wzvy",
    "name": "Tom",
    "speakingVolume": 45
  }],
  "confID": "900151350",
  "msgID": "4252aa67647f11ebb104b533eb9cd8a1",
  "msgMode": 0,
  "version": 1612178330127,
  "createTime": 1612178330127,
  "action": "SpeakerChangeNotify"
}
```

6.1.3.8 Pushing Meeting Media Quality

You can monitor the quality of service (QoS) of each participant in an MCU meeting by subscribing to the NetConditionNotify event. The following figure shows the metrics that can be monitored.

Figure 6-2 MCU meeting QoS metrics

Network status: normal

Audio codec: AAC-LD
 Video codec: H.264 HP
 Video bandwidth: 4096000 bit/s
 Audio output traffic: 900 bit/s
 Audio input traffic: 3100 bit/s
 Video output traffic: 158400 bit/s
 Video input traffic: 97900 bit/s
 Presentation output traffic: 0 bit/s
 Presentation input traffic: 0 bit/s
 Delay: 61 ms
 Jitter (Tx): 8 ms
 Jitter (Rx): 18 ms
 Audio (Tx) PLC: 0.3%
 Audio (Rx) PLC: 2%
 Video (Tx) PLC: 0%
 Video (Rx) PLC: 0.9%
 Presentation (Tx) PLC: 0%
 Presentation (Rx) PLC: 0%

Table 6-17 Message frame for pushing meeting media quality

Parameter	Type	Description
action	String	"NetConditionNotify"
version	Long	For a full message, the value is the timestamp (in milliseconds) when the message is generated. For an incremental message, the value is a sequence number in ascending order.
createTime	Long	Timestamp when a message is generated, in milliseconds.

Parameter	Type	Description
msgID	String	Unique message ID.
msgMode	Integer	Message mode. 0 : full message. 1 : incremental message.
confID	String	ID of the subscribed-to meeting.
data	Array of NetConditionNotifyDTO objects	Media quality.

Table 6-18 NetConditionNotifyDTO data structure

Parameter	Type	Description
participantID	String	Unique participant identifier.
mode	Integer	0 : Refresh the participant information. 1 : Remove the participant.
netInfo	String	Quality rating information of the transport network. <ul style="list-style-type: none">• good: The network quality is normal.• poor: The network quality is poor.
delay	String	Network round-trip time (RTT), in milliseconds.
jitter	String	Network jitter between when the video is sent from the terminal and when it is received on the server, in milliseconds.
outJitter	String	Network jitter between when the video is sent from the server and when it is received on the terminal, in milliseconds.
audioCodecType	String	Audio codec. Value: AACLD
videoCodecType	String	Video codec. Value: H264HP
fluxIn	String	Audio traffic from the server to the terminal. Unit: 100 bit/s.
fluxOut	String	Audio traffic from the terminal to the server. Unit: 100 bit/s.
lostPacketRate	String	Audio packet loss rate from the terminal to the server. The unit is 0.01%. For example, 1000 indicates that the packet loss rate is 10%.

Parameter	Type	Description
audioOutLossPacketRate	String	Audio packet loss rate from the server to the terminal. The unit is 0.01%. For example, 1000 indicates that the packet loss rate is 10%.
bandwidth	Integer	Negotiated video bandwidth. Unit: 100 bit/s.
videoFluxIn	String	Video traffic from the server to the terminal. Unit: 100 bit/s.
videoFluxOut	String	Video traffic sent from the terminal to the server. Unit: 100 bit/s.
videoInLossPacketRate	String	Video packet loss rate from the terminal to the server. The unit is 0.01%. For example, 1000 indicates that the packet loss rate is 10%.
videoOutLossPacketRate	String	Video packet loss rate from the server to the terminal. The unit is 0.01%. For example, 1000 indicates that the packet loss rate is 10%.
assistVideoFluxIn	String	Presentation traffic from the server to the terminal. Currently, only video is available for presentation. Unit: 100 bit/s.
assistVideoFluxOut	String	Presentation traffic from the terminal to the server. Currently, only video is available for presentation. Unit: 100 bit/s.
assistVideoInLossPacketRate	String	Presentation packet loss rate from the terminal to the server. Currently, the presentation contains only video. The unit is 0.01%. For example, 1000 indicates that the packet loss rate is 10%.
assistVideoOutLossPacketRate	String	Presentation packet loss rate from the server to the terminal. Currently, the presentation contains only video. The unit is 0.01%. For example, 1000 indicates that the packet loss rate is 10%.

Example of Pushing Meeting Media Quality

```
{
  "data": [{
    "mode": 0,
    "participantID": "uzr571a9brwu11cvcibvru5a7r7rriy",
    "netInfo": "good",
    "lostPacketRate": "0",
    "delay": "37",
    "jitter": "0",
    "fluxIn": "2",
    "fluxOut": "2",
  }]
```

```
"audioOutLossPacketRate": "0",
"videoInLossPacketRate": "0",
"videoOutLossPacketRate": "0",
"assistVideoInLossPacketRate": "0",
"assistVideoOutLossPacketRate": "0",
"outJitter": "0",
"videoFluxIn": "0",
"videoFluxOut": "0",
"assistVideoFluxIn": "0",
"assistVideoFluxOut": "0",
"bandwidth": 61440,
"audioCodecType": "AACLD",
"videoCodecType": "H264HP"
}},
"confID": "900487914",
"msgID": "244720b162d111eb980a6b11e9b06158",
"msgMode": 1,
"version": 39,
"createTime": 1611993596126,
"action": "NetConditionNotify"
}
```

6.1.3.9 Pushing Invitation Results

NOTE

This event can be used to notify the result of inviting a participant or the cause of leaving a meeting.

Table 6-19 Message frame for pushing invitation results

Parameter	Type	Description
action	String	"InviteResultNotify"
version	Long	For a full message, the value is the timestamp (in milliseconds) when the message is generated. For an incremental message, the value is a sequence number in ascending order.
createTime	Long	Timestamp when a message is generated, in milliseconds.
msgID	String	Unique message ID.
msgMode	Integer	Message mode. 0 : full message. 1 : incremental message.
confID	String	ID of the subscribed-to meeting.
data	Array of InviteResultDTO objects	Invitation result list. For details, see the InviteResultDTO data structure.

Table 6-20 InviteResultDTO data structure

Parameter	Type	Description
callNumber	String	Called number.
errorCode	String	<ul style="list-style-type: none">• Invitation result event. 0: Call succeeded. Other values: Call failed.• Leave reason event: 11111001: No streams received by the MCU (network error). 11111002: No streams received by the participant (network or client error). 11111003: SIP signaling timed out (network error). 11111004: WebSocket timed out (network error). 11076002: The participant is disconnected by the host on the client. 11076010: The participant proactively left the meeting. 11076016: The participant is disconnected by the meeting administrator on the Management Platform.

Example

```
{
  "data": [{
    "callNumber": "+86571299676493248",
    "resultCode": "0"
  }],
  "confID": "900487914",
  "msgID": "23a4ed3a62d111eb980a8f4b46ea6930",
  "msgMode": 0,
  "version": 1611993595063,
  "createTime": 1611993595063,
  "action": "InviteResultNotify"
}
```

6.1.3.10 Pushing Live Captions

Description

Anyone in a meeting can use this API to enable live captions of the meeting for the first time. When live captions are enabled, everyone in the meeting can subscribe to the message frame for pushing live captions.

Live captions stop only when the meeting ends.

Table 6-21 Request text

Parameter	Type	Description
action	String	Message type. The value must be ConfControl .
sequence	String	Message sequence, which uniquely identifies a message frame.
type	String	Meeting control type. The value must be REALTIMESUBTITLE .
data	String	For details about the request JSON character string, see Table 6-22 .

Table 6-22 Data structure of data

Parameter	Mandatory	Type	Description
conferenceID	Yes	String	Meeting ID.
confToken	Yes	String	Meeting control token.
isSubtitle	No	Integer	0 : Disable live captions. 1 : Enable live captions.
subtitleType	No	Integer	Caption display mode. 0 : captions of two loudest speakers.
sisProperty	No	String	Model used. chinese_16k_general : Mandarin Chinese (default). chinese_16k_trial : trial mode.
id	No	Array of strings	This parameter is mandatory when captions of specific speakers are displayed. List of speaker IDs (pid in Pushing Online Participant Information). Up to four speakers are supported.

Table 6-23 Message frame for pushing live captions

Parameter	Type	Description
action	String	"RealTimeSubtitleNotify"

Parameter	Type	Description
version	String	For a full message, the value is the timestamp (in milliseconds) when the message is generated. For an incremental message, the value is a sequence number in ascending order.
createTime	String	Timestamp when a message is generated, in milliseconds.
msgID	String	Unique message ID.
msgMode	Integer	Message mode. 0 : full message. 1 : incremental message.
confID	String	ID of the subscribed-to meeting.
data	SubtitleData object	Live caption information. The content is negotiated between the live caption service and terminal. For details, see the SubtitleData data structure.

Table 6-24 SubtitleData data structure

Parameter	Type	Description
msgs	Msgs<0..*>	Caption content. For details, see Table 6-25 .
isFinal	Boolean	Whether to break a sentence.
timestamp	Integer	Timestamp.
beginTime	Integer	Caption start time.
endTime	Integer	Caption end time.
participantID	String	Participant ID.

Table 6-25 Msgs data structure

Parameter	Type	Description
subtitleLang	String	Language. Original : original language. Mandarin English
translateText	String	Caption text.

Parameter	Type	Description
id	String	Caption message ID.

Example of Enabling Live Captions

```
var confToken = Obtaining a Meeting Control Token;
var openRealTimeSubtitle = JSON.stringify({
  sequence: "000000000000000002611382273463",
  action: "ConfControl",
  type: "REALTIMESUBTITLE",
  data: JSON.stringify({
    conferenceID: "986812232",
    confToken: confToken,
    isSubtitle: "1",
    subtitleType: "0"
  })
});
```

Example of Pushing Live Captions

```
{
  "action": "RealTimeSubtitleNotify",
  "version": "1614936396556",
  "createTime": "1614936396556",
  "msgID": "e20544e37d9411ebbae3fd5b302953d3",
  "msgMode": 0,
  "confID": "981112355",
  "data": {
    "msgs": [{
      "subtitleLang": "Mandarin",
      "translateText": "Live captions.",
      "id": "c0196fb9-c9c3-47ba-a685-05223552de2f"
    }],
    "isFinal": false,
    "timestamp": 1614936396553,
    "beginTime": 1528680,
    "endTime": 1530900,
    "participantID": "984r8z9f4p6p6pry97yfan6z76681f09"
  }
}
```

6.1.3.11 Using WebSocket Heartbeats

Description

This API is used to keep the established WebSocket message stream alive. If the meeting server does not receive a heartbeat request within 180 seconds, it closes the WebSocket connection. It is recommended that a heartbeat request be sent every minute.

Table 6-26 WebSocket heartbeat request

Parameter	Type	Description
action	String	"HeartBeat"
sequence	String	Timestamp when a message is generated, in milliseconds.

Example WebSocket Heartbeat Request

```
{
  "sequence": "00000000000000001611993655770",
  "action": "HeartBeat"
}
```

Table 6-27 WebSocket heartbeat response parameters

Parameter	Type	Description
action	String	"HeartBeat"
sequence	String	Timestamp when a message is generated, in milliseconds. The value is the same as sequence in the heartbeat request.

Example WebSocket Heartbeat Response

```
{
  "sequence": "00000000000000001611993655770",
  "action": "HeartBeat"
}
```

6.2 Enterprise-Level Meeting Event Push

6.2.1 Overview

After purchasing the Huawei Cloud Meeting premium edition, you can subscribe to meeting events in your enterprise. The Huawei Cloud Meeting server proactively pushes meeting events of your enterprise to the callback service URL of your enterprise developers.

Currently, the following meeting push events are supported:

- Meeting start
- Meeting end
- Meeting close
- Recording end
- Meeting reservation
- Meeting modification
- Meeting cancelation
- Meeting joining
- Meeting leaving

 **NOTE**

- Enterprises using the free trial edition cannot enable the meeting event push function. Contact Huawei sales personnel and provide the enterprise ID to upgrade to the premium edition.
- If you use the SP mode and need to enable the meeting event push function on Huawei Cloud Meeting Management Platform, contact Huawei sales personnel and provide the SP ID.
- If an event fails to be pushed to a specific callback URL, the meeting server retries 30 seconds later. If three consecutive retries fail, the meeting server tries again 30 minutes later. The retry process lasts for 24 hours. Events that fail to be pushed in 24 hours are discarded.

6.2.2 Example

Scenarios

Configure meeting event subscription, verify configuration enabling, and push events in an enterprise.

Configuration

Perform the following steps:

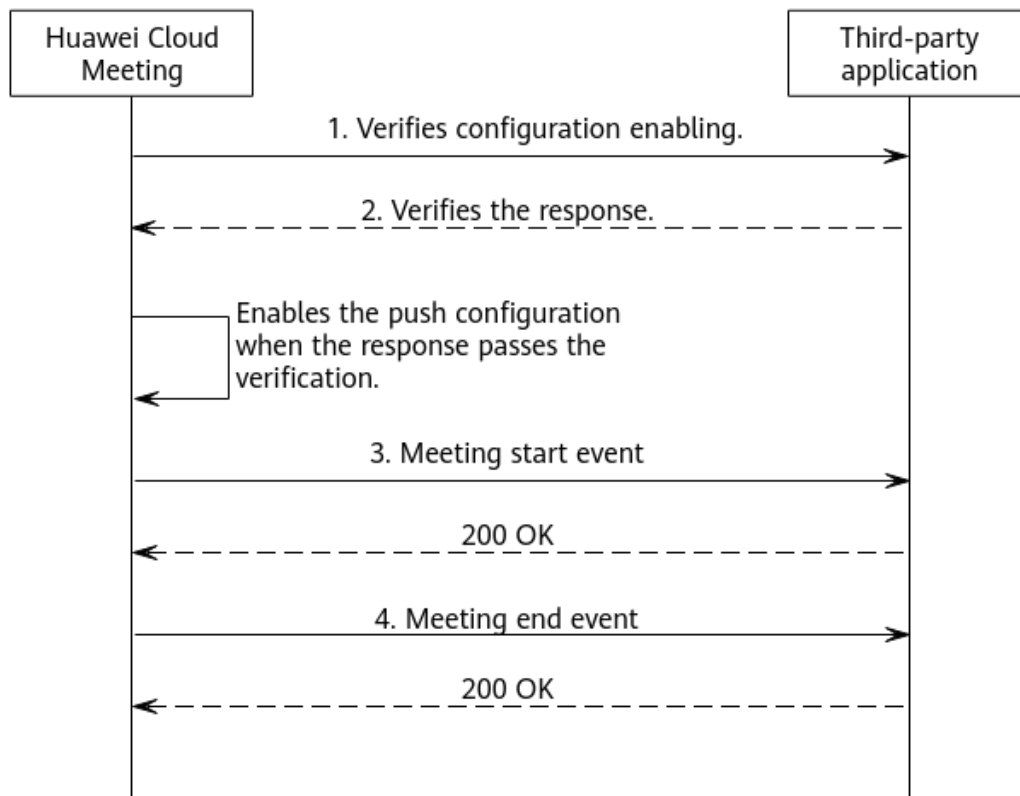
1. Log in to Huawei Cloud Meeting Management Platform as the enterprise administrator.
2. In the navigation pane, choose **Advanced Settings > Openness**.
3. Click the **Meeting Event Push** tab, click **Add**, and enter the subscriber ID, password, and push URL. The URL starts with **http** or **https**.
4. Switch on **Enable** to enable meeting event subscription in your enterprise.

 **NOTE**

A verification message is sent to the specified URL after you switch on **Enable**. Meeting event subscription will be enabled after the third-party callback service returns a correct response. For details, see [Event of Verifying Configuration Enabling](#).

Service Process

Figure 6-3 Process of enabling event push and pushing meeting events in your enterprise



1. After you complete the configuration and switch on **Enable** under the **Meeting Event Push** tab, the Huawei Cloud Meeting background sends a request for verifying configuration enabling to the specified URL.
2. The third-party server must return a response as required. The nonce in the response must be the same as that in the preceding request. For details, see [Event of Verifying Configuration Enabling](#).
3. After the configuration is enabled, when a meeting event is generated in the enterprise, the Huawei Cloud Meeting background pushes the corresponding event to the specified URL. For details, see [Meeting Start Event](#), [Meeting End Event](#), and [Meeting Close Event](#).
4. After receiving a POST request of event push, the third-party server returns a 200 OK message.

6.2.3 APIs

Parameters in a request body are as follows.

Table 6-28 Request message data structure

Parameter	Type	Description
appId	String	Subscriber ID in the configuration under the Meeting Event Push tab.
timestamp	Integer	Message timestamp, in milliseconds.
nonce	String	Random string.
signature	String	Message body signature generated using hmacSHA256(appId + timestamp + nonce + eventInfo , appkey), in which appkey indicates the password in the configuration under the Meeting Event Push tab. Enterprise developers can verify data integrity using the signature. eventInfo in the signature algorithm is a JSON character string converted from the event information object.
eventInfo	EventInfo	Event information.

Table 6-29 EventInfo data structure

Parameter	Type	Description
event	String	Event type. Values: <ul style="list-style-type: none"> • meeting.verify: event of verifying configuration enabling. • meeting.started: meeting start event. • meeting.end: meeting end event. • meeting.conclude: meeting close event. • record.finish: recording end event. • meeting.create: reservation event. • meeting.modify: modification event. • meeting.cancel: cancelation event. • meeting.join: meeting joining event. • meeting.left: meeting leaving event.
timestamp	Integer	Event timestamp, in milliseconds.
payload	Payload	Event content.

Table 6-30 Payload data structure

Parameter	Type	Description
meetingInfo	MeetingInfo	Event content.
attendeelInfo	AttendeelInfo	Participant details.

Table 6-31 MeetingInfo data structure

Parameter	Type	Description
meetingID	String	Meeting ID.
meetingUUID	String	Meeting UUID.
meetingCycleSubID	String	Recurring meeting UUID.

Table 6-32 AttendeelInfo data structure

Parameter	Type	Description
userUUID	String	User UUID.
userAgent	String	User client type.
account	String	Account.
participantID	String	Participant ID.
displayName	String	Display name.
joinTime	Integer	Timestamp when the participant joined the meeting, in milliseconds.
leftTime	Integer	Timestamp when the participant left the meeting, in milliseconds.
role	String	Role in the meeting.
callNumber	String	Called number.

Parameters in the response body are as follows.

Table 6-33 Response message data structure

Parameter	Type	Description
event	String	Event type. In the response of verifying configuration enabling, the value is meeting.verify .
nonce	String	In the response of verifying configuration enabling, the value is the nonce value obtained from the request.

6.2.3.1 Event of Verifying Configuration Enabling

When the enterprise administrator enables the push configuration on the Management Platform, the Huawei Cloud Meeting server sends a verification event message to the callback URL of enterprise developers and verifies the verification response returned by the third-party system. If the verification is successful, the configuration is enabled. Otherwise, the configuration fails to be enabled.

For details about request parameters, see [Table 6-28](#).

For details about response parameters, see [Table 6-33](#).

Example of Enabling Verification

Request

```
POST /openapi/meetingevent
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290

{
  "appID": "1988692299",
  "timestamp": 1629183619116,
  "nonce": "85262798",
  "signature": "262ccb5f8854f824c41ea5854ba1798bfa850706fbc85b2be9fd7535ed6b8ff3",
  "eventInfo": {
    "event": "meeting.verify",
    "timestamp": 1629183619116
  }
}
```

Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290

{
  "event": "meeting.verify",
  "nonce": "85262798"
}
```

 NOTE

The value of **nonce** in the response must be the same as that in the request. Otherwise, the configuration fails to be enabled.

6.2.3.2 Meeting Start Event

When a meeting in your enterprise starts, the server pushes a POST request to the callback URL of enterprise developers.

For details about request parameters, see [Table 6-28](#).

Response message: 200 OK, without a body.

Example of Pushing the Meeting Start Event

Request

```
POST /openapi/meetingevent
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290

{
  "appID": "123456789",
  "timestamp": 1629813991351,
  "nonce": "60426560",
  "signature": "e3945cab9c583f394ae5e4957b83905e779caciaa2377d9542e19e011cc60a139",
  "eventInfo": {
    "event": "meeting.started",
    "timestamp": 1629813991351,
    "payload": {
      "meetingInfo": {
        "meetingID": "987446316",
        "meetingUUID": "0307e0400f0a11eca58a9fcb8e69dde8",
        "meetingCycleSubID": "6038a614321511ecaf39ffbe33ed54dc"
      }
    }
  }
}
```

Response

```
Response:
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290
```

6.2.3.3 Meeting End Event

When a meeting in your enterprise ends, the server pushes a POST request to the callback URL of enterprise developers.

 NOTE

If the scheduled end time of the meeting does not arrive after the meeting ends, participants can join the meeting again.

For details about request parameters, see [Table 6-28](#).

Response message: 200 OK, without a body.

Example of Pushing the Meeting End Event

Request

```
POST /openapi/meetingevent
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290

{
  "appID": "123456789",
  "timestamp": 1629813991351,
  "nonce": "60426560",
  "signature": "e3945cab9c583f394ae5e4957b83905e779caciaa2377d9542e19e011cc60a139",
  "eventInfo": {
    "event": "meeting.end",
    "timestamp": 1629813991351,
    "payload": {
      "meetingInfo": {
        "meetingID": "987446316",
        "meetingUUID": "0307e0400f0a11eca58a9fcb8e69dde8",
        "meetingCycleSubID": "6038a614321511ecaf39ffbe33ed54dc"
      }
    }
  }
}
```

Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290
```

6.2.3.4 Meeting Close Event

When a meeting in your enterprise closes, the server pushes a POST request to the callback URL of enterprise developers.

For details about request parameters, see [Table 6-28](#).

Response message: 200 OK, without a body.

NOTE

No one can join a closed meeting again.

Example of Pushing the Meeting Close Event

Request

```
POST /openapi/meetingevent
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290

{
```

```

"appID": "123456789",
"timestamp": 1629813991351,
"nonce": "60426560",
"signature": "e3945cab9c583f394ae5e4957b83905e779caciaa2377d9542e19e011cc60a139",
"eventInfo": {
  "event": "meeting.conclude",
  "timestamp": 1629813991351,
  "payload": {
    "meetingInfo": {
      "meetingID": "987446316",
      "meetingUUID": "0307e0400f0a11eca58a9fcb8e69dde8",
      "meetingCycleSubID": "6038a614321511ecaf39ffbe33ed54dc"
    }
  }
}
}
}

```

Response

```

Response:
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
X-Request-ID: 539e8b710378987ffc5eb844b5e5c290

```

6.3 Configuring Enterprise-Level Meeting Event Push

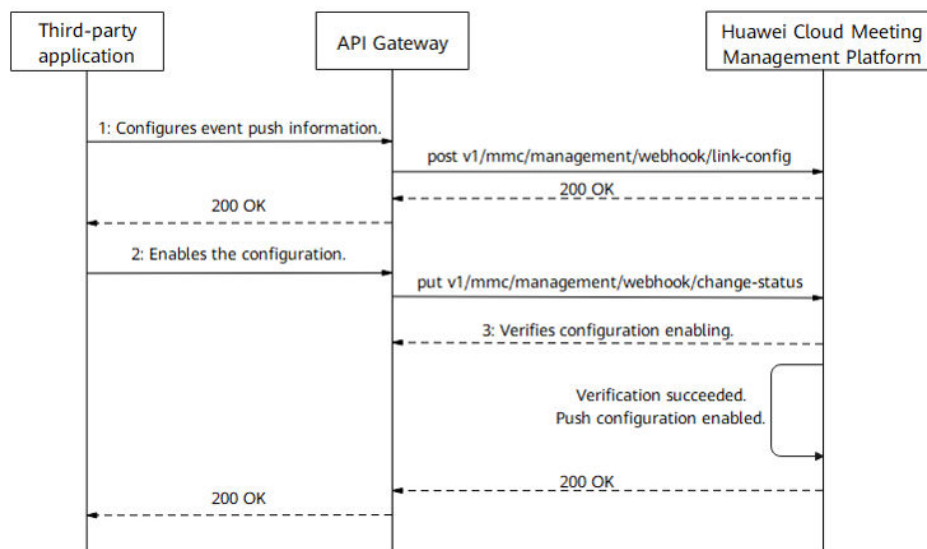
6.3.1 Example

Scenarios

Configure meeting event verification and verify configuration enabling in an enterprise.

Service Process

Figure 6-4 Process of configuring and enabling meeting event push in an enterprise



1. Obtain the authentication token. For details, see [Authenticating an App ID](#) or [Performing Authentication](#).
2. Configure the event push in your enterprise. For details, see the API for configuring event push.
3. After the API for enabling event push is called, the Huawei Cloud Meeting background sends a request for verifying configuration enabling to the specified URL. The third-party server must return a response as required. The nonce in the response must be the same as that in the request. For details, see [Event of Verifying Configuration Enabling](#).
4. After the configuration is enabled, when a meeting event is generated in the enterprise, the Huawei Cloud Meeting background pushes the corresponding event to the specified URL. For details, see [Meeting Start Event](#), [Meeting End Event](#), and [Meeting Close Event](#).
5. After receiving a POST request of pushing the event, the third-party server returns a 200 OK message.

6.3.2 APIs

6.3.2.1 Configuring Event Push

Description

This API is used by an administrator to configure meeting event subscription at the enterprise level.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 6-34 Prototype

Request Method	POST
Request Address	/v1/mmc/management/webhook/link-config
Transport Protocol	HTTPS

Request Parameters

Table 6-35 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
corpId	No	String	Body	Enterprise ID. This parameter is mandatory for enterprise registration callback.
spId	No	String	Body	SP ID. In the multi-tenant scenario, this parameter is mandatory for SP registration callback.
subscriberId	Yes	String	Body	Subscriber ID.
subscriberKey	Yes	String	Body	Subscriber password.
url	Yes	String	Body	Subscription URL. NOTE HTTPS must be used.

Status Codes

Table 6-36 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/mmc/management/webhook/link-config
Connection: keep-alive
```

```
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
Content-Type: application/json
user-agent: WeLink-desktop
Content-Length: 372
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "corpId": "1387317060",
  "subscriberId": "12345678",
  "subscriberKey": "123465",
  "url": "https://meeting.huaweicloud.com"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1157
Connection: keep-alive
http_proxy_id: 462abfcfa8a41c2c5450eb7648bf5ad2
Server: api-gateway
X-Request-Id: 7ba6f742610c03a64262b126fb336a5d
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' -d '{"corpId": "1387317060","subscriberId": "12345678","subscriberKey": "123465","url": "https://meeting.huaweicloud.com"}' 'https://api.meeting.huaweicloud.com/v1/mmc/management/webhook/link-config'
```

6.3.2.2 Querying Event Push

Description

This API is used by an administrator to query the event subscription settings of an enterprise.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 6-37 Prototype

Request Method	GET
Request Address	/v1/mmc/management/webhook/link-config

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 6-38 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
corpId	No	String	Query	Enterprise ID. This parameter is mandatory for enterprise registration callback.
spId	No	String	Query	SP ID. In the multi-tenant scenario, this parameter is mandatory for SP registration callback.

Status Codes

Table 6-39 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 6-40 Response parameters

Parameter	Type	Description
returnCode	Integer	Result code.

Parameter	Type	Description
returnDesc	string	Result description.
id	string	ID of a subscription configuration record.
subscriberId	string	Subscription ID.
url	string	Subscription URL.
status	Integer	Event push status. <ul style="list-style-type: none"> ● 0: enabled. ● 1: disabled. ● 2: locked.

Example Request

```
GET /v1/mmc/management/webhook/link-config?corpId=1387317060
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1811
Connection: keep-alive
Expires: 0
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: acf5bd2cc7c7f90fe7ab6b95a8c753d5
Server: api-gateway
X-Request-Id: e2bc0a1429cb2fd52db88ba6fa2c44a8

{
  "id": "b958adc3639b11ecb310e97279c39e66",
  "subscriberId": "12345678",
  "url": "https://meeting.huaweicloud.com",
  "status": 1
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC'
'https://api.meeting.huaweicloud.com/v1/mmc/management/webhook/link-config?corpId=1387317060'
```

6.3.2.3 Deleting Event Push

Description

This API is used by an administrator to delete the configured event push settings.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 6-41 Prototype

Request Method	DELETE
Request Address	/v1/mmc/management/webhook/link-config
Transport Protocol	HTTPS

Request Parameters

Table 6-42 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
id	Yes	String	Query	ID of a subscription configuration record.

Status Codes

Table 6-43 Status codes

HTTP Status Code	Description
200	Operation successful.

HTTP Status Code	Description
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/mmc/management/webhook/link-config?id=b21e0291639911ecb31073dbfc5b38fa
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 40c9d32a92b43f85e5cd12617b49535b
Server: api-gateway
X-Request-Id: a02164ff20cbc841c6c0e9ab38a07e5b
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/webhook/link-config?id=b21e0291639911ecb31073dbfc5b38fa'
```

6.3.2.4 Enabling Event Push

Description

This API is used by an administrator to change the status of subscription settings.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 6-44 Prototype

Request Method	PUT
Request Address	/v1/mmc/management/webhook/change-status
Transport Protocol	HTTPS

Request Parameters

Table 6-45 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
id	Yes	String	Query	ID of a subscription configuration record.
status	Yes	Integer	Query	Event push status. <ul style="list-style-type: none"> ● 0: enabled. ● 1: disabled. ● 2: locked.

Status Codes

Table 6-46 Status codes

HTTP Status Code	Description
200	Operation successful.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/mmc/management/webhook/change-status?id=b21e0291639911ecb31073dbfc5b38fa&status=1
Connection: keep-alive
X-Access-Token: stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC
user-agent: WeLink-desktop
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 39
Connection: keep-alive
http_proxy_id: 40c9d32a92b43f85e5cd12617b49535b
Server: api-gateway
X-Request-Id: a02164ff20cbc841c6c0e9ab38a07e5b
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X PUT -H 'X-Access-Token:stbX5ElstO5QwOwPB9KGQWUZ1DHoFrTsQjjC' 'https://api.meeting.huaweicloud.com/v1/mmc/management/webhook/change-status?id=b21e0291639911ecb31073dbfc5b38fa&status=1'
```


7 Enterprise Management

7.1 Examples

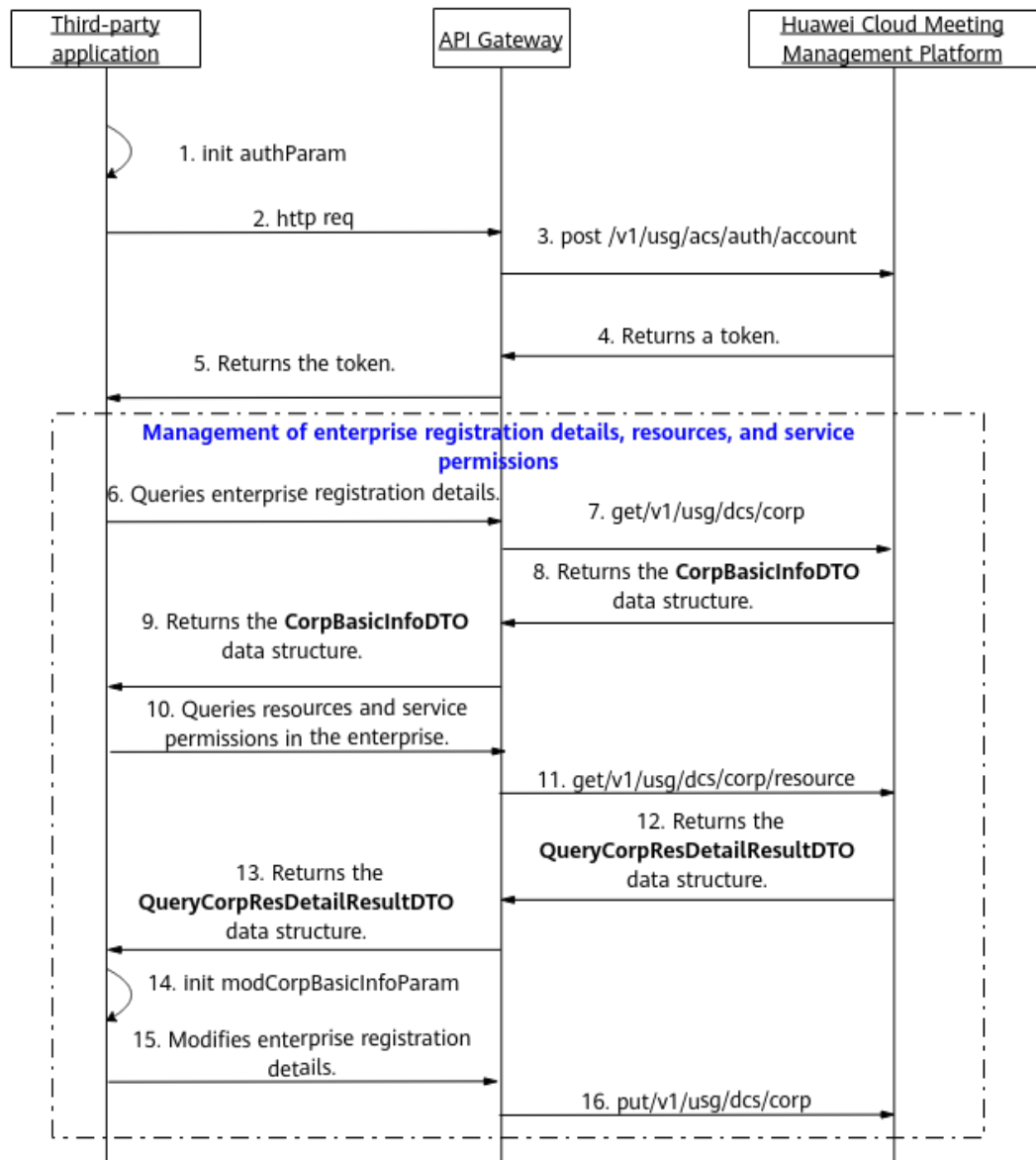
7.1.1 Managing Enterprise Registration Details, Resources, and Service Permissions

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using an enterprise administrator account on a third-party application, you can query the registration details, resources, and service permissions of the enterprise and modify the enterprise registration details. (Currently, only the enterprise address can be modified.)

Service Process

Figure 7-1 Process of managing enterprise registration details, resources, and service permissions



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise administrator account and password to obtain a token.
2. The third-party application sends an authentication request to API Gateway.
3. After receiving the request, API Gateway sends an account authentication request to Huawei Cloud Meeting Management Platform.
4. Huawei Cloud Meeting Management Platform returns a token after successful authentication.
5. API Gateway returns the token information to the third-party application.

6. The third-party application sends a request to API Gateway to query the enterprise registration details.
7. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query the enterprise registration details.
8. Huawei Cloud Meeting Management Platform returns the enterprise registration details to API Gateway.
9. API Gateway returns the enterprise registration details to the third-party application.
10. The third-party application sends a request to API Gateway to query details of resources and service permissions.
11. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain details of enterprise resources and service permissions.
12. Huawei Cloud Meeting Management Platform returns the details of enterprise resources and service permissions to API Gateway.
13. API Gateway returns the details of enterprise resources and service permissions to the third-party application.
14. To modify the enterprise registration details, the third-party application sends a request carrying the new enterprise address to API Gateway.
15. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain the enterprise registration details.
16. Huawei Cloud Meeting Management Platform modifies the enterprise registration details.

The APIs for managing enterprise registration details, resources, and service permissions shown from steps 6 to 16 in the preceding figure can be called in any sequence.

7.2 APIs

7.2.1 Querying Enterprise Registration Details as an Enterprise Administrator

Description

This API is used by an enterprise administrator to query enterprise registration details.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-1 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/usg/dcs/corp
Transport Protocol	HTTPS

Request Parameters

Table 7-2 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Token authentication. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 7-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

Table 7-4 Response parameters

Parameter	Type	Description
account	String	Huawei Cloud Meeting account of the administrator.
address	String	Enterprise address.
adminName	String	Administrator name.
autoUserCreate	Boolean	Whether automatic user registration is enabled.
corpType	Integer	Enterprise type. <ul style="list-style-type: none"> 0: premium edition. 5: free edition. 6: Huawei Cloud Flexus edition.
country	String	Country or region that the administrator's mobile number belongs to.
email	String	Administrator's email address.
enablePstn	Boolean	Whether PSTN is enabled.
enableSMS	Boolean	Whether to send meeting notifications by SMS message.
enableCloudDisk	Boolean	Whether Clouddrive is enabled.
id	String	Enterprise ID.
name	String	Enterprise name.
phone	String	Administrator's mobile number.

Example Request

```
GET /v1/usg/dcs/corp
Connection: keep-alive
X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepUIEsfhQSC
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290

{
  "id": "15659",
  "name": "wlj",
  "address": "string",
  "adminName": "wlj",
  "account": "wlj",
  "phone": "+86*****",
  "country": "chinaPR",
  "email": "****",
  "enableSMS": true,
  "enablePstn": false,
  "autoUserCreate": true
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepULesfhQSC' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp
```

7.2.2 Modifying Enterprise Registration Details as an Enterprise Administrator

Description

This API is used by an enterprise administrator to modify enterprise registration details.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-5 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/corp

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 7-6 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
address	No	String	Body	Enterprise address. The value contains up to 255 characters.
autoUserCreate	No	Boolean	Body	Whether automatic user registration is enabled.

Status Codes

Table 7-7 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.

HTTP Status Code	Description
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/corp
Connection: keep-alive
X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepUIEsfhQSC
Content-Type: application/json
Content-Length: 27
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "address": "string"
}
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepUIEsfhQSC' -d '{"address": "string"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp
```

7.2.3 Querying Enterprise Resources and Service Permissions as an Enterprise Administrator

Description

This API is used by an enterprise administrator to query details of enterprise resources and service permissions, including used resource details.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-8 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/resource
Transport Protocol	HTTPS

Request Parameters

Table 7-9 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 7-10 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 7-11 Response parameters

Parameter	Type	Description
confCallCount	ResDetailDTO object	Number of concurrent participants.
confLength	Integer	Meeting duration.
enableAiMinutes	Boolean	Whether automatic generation of meeting minutes is enabled.
enableHybridCloud	Boolean	Whether the hybrid cloud mode is enabled.
enablePstn	Boolean	Whether PSTN is enabled when the enterprise was created.
enableSMS	Boolean	Whether to send meeting notifications by SMS message.
enableCloudDisk	Boolean	Whether Clouddrive is enabled.
enableUc	Boolean	Whether the UC function is enabled.
hwVisionCount	ResDetailDTO object	Number of smart TV access accounts.
ideaHubCount	ResDetailDTO object	Number of IdeaHub access accounts.
liveCount	ResDetailDTO object	Number of live broadcast ports.
recordCapability	ResDetailDTO object	Recording storage space, in GB.
roomCount	ResDetailDTO object	Number of whiteboard (SmartRooms) access accounts.

Parameter	Type	Description
singleConfCallCount	Integer	Number of concurrent participants in a single meeting.
te1080pHardCount	ResDetailDTO object	Number of 1080p hard terminal access accounts.
te720pHardCount	ResDetailDTO object	Number of 720p hard terminal access accounts.
teSoftCount	ResDetailDTO object	Number of soft client accounts.
thirdPartyHardCount	ResDetailDTO object	Number of third-party hard terminal access accounts.
vmr	Array of QueryVmrPkgResResultDTO objects	Number of cloud meeting room packages.

Table 7-12 ResDetailDTO data structure

Parameter	Type	Description
expiredCount	Integer	Number of expired resources.
expiringCount	Integer	Number of resources that are about to expire in 30 days.
sumCount	Integer	Total number of resources.
trialCount	Integer	Number of rewarded resources.
usedCount	Integer	Number of used resources, expect for recording storage space, number of concurrent participants, and number of live broadcast ports.

Table 7-13 QueryVmrPkgResResultDTO data structure

Parameter	Type	Description
vmrName	String	Name of a cloud meeting room package.
vmrPkgCount	Integer	Number of cloud meeting room packages of this specification.
vmrPkgId	String	ID of the cloud meeting room package.
vmrPkgParticipants	Integer	Number of concurrent participants in the cloud meeting room package.

Parameter	Type	Description
vmrPkgUsedCount	Integer	Number of allocated cloud meeting room packages of this specification.

Example Request

```
GET /v1/usg/dcs/corp/resource
Connection: keep-alive
X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepUIEsfhQSC
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

```
{
  "te1080pHardCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 2,
    "usedCount": 1
  },
  "te720pHardCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 5,
    "usedCount": 0
  },
  "teSoftCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 30,
    "usedCount": 21
  },
  "roomCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 0,
    "usedCount": 0
  },
  "recordCapability": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 8,
    "usedCount": 0
  },
  "confCallCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 6,
```

```

    "usedCount": 0
  },
  "liveCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 1,
    "usedCount": 0
  },
  "thirdPartyHardCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "trialCount": 0,
    "sumCount": 0,
    "usedCount": 0
  },
  "vmr": [
    {
      "vmrPkgId": "ff808081680d5b8601682b3436070030",
      "vmrName": "Dedicated operations cloud meeting room_25",
      "vmrPkgParties": 25,
      "vmrPkgCount": 1,
      "vmrPkgUsedCount": 1
    }
  ],
  "enablePstn": false,
  "enableSMS": true
}

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepUIEsfhQSC' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/resource
```

7.2.4 Querying Enterprise Resource Orders by Page

Description

This API is used by the enterprise administrator to query enterprise resource orders based on the search criteria.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-14 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/usg/dcs/corp/resource-list
Transport Protocol	HTTPS

Request Parameters

Table 7-15 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to be queried. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by resourceId is supported.

Parameter	Mandatory	Type	Location	Description
startExpireDate	No	Integer	Query	If this parameter is specified, resources whose expiration time is later than the specified date are queried.
endExpireDate	No	Integer	Query	If this parameter is specified, resources whose expiration time is earlier than the specified date are queried.
type	No	String	Query	<p>Resource type.</p> <ul style="list-style-type: none"> • VMR: cloud meeting room. • CONF_CALL: concurrent participant. • HARD_1080P: 1080p hard terminal access account. • HARD_720P: 720p hard terminal access account. • SOFT: user account. • ROOM: whiteboard account. • LIVE: live broadcast port. • RECORD: recording storage space. • HARD_THIRD_PARTY: third-party hard terminal access account. • HUAWEI_VISION: smart TV account. <p>NOTE When webinar resources are queried, set type to VMR.</p>

Parameter	Mandatory	Type	Location	Description
vmrMode	No	Integer	Query	Cloud meeting room mode. This parameter is valid only when type is set to VMR . <ul style="list-style-type: none"> • 0: personal meeting ID. • 1: cloud meeting room. • 2: webinar.
typeId	No	String	Query	Resource type ID. For example, if you want to query five-participant cloud meeting rooms, set this parameter to the ID of the five-participant cloud meeting room package.
orderId	No	String	Query	Order ID.
status	No	Integer	Query	Order status. <ul style="list-style-type: none"> • 0: normal. • 1: expired. • 2: disabled.

Status Codes

Table 7-16 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 7-17 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryResourceResultDTO objects	Enterprise resource items by page.

Example Request

```
GET /v1/usg/dcs/corp/resource-list?
searchKey=&startExpireDate=&endExpireDate=&type=VMR&typeld=&orderId=&status=&vmrMode=2&offset=
0&limit=10
Connection: keep-alive
X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepUIEsfhQSC
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290

{
  "offset": 0,
  "limit": 10,
  "count": 1,
  "data": [
    {
      "id": "1747cfe902c34631999975417bf6bc1a",
      "type": "VMR",
      "typeld": 2001000,
      "typeDesc": "Webinar_1000 Attendees",
      "vmrMode": 2,
      "count": 10,
      "expireDate": 1640966400000,
      "orderId": "95152407f7f147149e7f3e8e5e4a84bc",
      "status": 0,
      "editable": true
    }
  ]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbdOWTjFFPAoDfJaWFGWnOTtepUIEsfhQSC' /v1/usg/dcs/corp/resource-list?searchKey=&startExpireDate=&endExpireDate=&type=VMR&typeId=&orderId=&status=&vmrMode=2&offset=0&limit=10
```

7.2.5 Creating an Enterprise as an SP Administrator

Description

This API is used to create an enterprise, assign the default enterprise administrator, and allocate resources to the enterprise.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-18 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/sp/corp
Transport Protocol	HTTPS

Request Parameters

Table 7-19 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
adminInfo	Yes	AdminDTO object	Body	Administrator details.
basicInfo	Yes	CorpBasicDTO object	Body	Basic enterprise details.
groupId	No	String	Body	Media ingestion (including SBC and MCU) group ID, which can be obtained through the API for Querying Resource Information as an SP Administrator .
propertyInfo	No	Array of OrgPropertyDTO objects	Body	Information about configurable items.
resInfo	No	AddCorpResDTO object	Body	Enterprise resource details.

Table 7-20 AdminDTO data structure

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Body	User account. The value can contain letters, numbers, underscores (_), hyphens (-), periods (.), and at signs (@), and cannot contain only numbers. The at sign (@) cannot be followed by a period(.

Parameter	Mandatory	Type	Location	Description
country	No	String	Body	Country or region that the mobile number belongs to.
email	No	String	Body	Email address of the administrator. The mobile number or email address of the administrator must be specified. Otherwise, the administrator password cannot be reset later. If the enterprise does not enable SMS notifications, the email address is mandatory. The format is (^\$ ^[\w-+]+(\.[\w-+]+)@[/\w-]+(.[/\w-]+)(\.[\w-]{1,})\$).
name	Yes	String	Body	Administrator name.
phone	No	String	Body	Mobile number. The mobile number must contain the country code, for example, a mobile number in Chinese mainland is +86 xxxxxxx. This parameter is combined with the country parameter. The mobile number is in the format of (^\$ ^[\w-+]?[0-9]+\$).

Parameter	Mandatory	Type	Location	Description
pwd	Yes	String	Body	<p>If this parameter is carried, the actual value is used. Otherwise, the value is generated by the backend by default. The password must meet the following requirements:</p> <ul style="list-style-type: none"> • The password contains 6 to 32 characters. • The password cannot be the same as the account or the account spelled backwards. • The password must contain at least two of the following: lowercase letters, uppercase letters, numbers, and special characters (~!@#\$%^&*()-_+=\ []{};:"',<.>/?).

Table 7-21 CorpBasicDTO data structure

Parameter	Mandatory	Type	Location	Description
address	No	String	Body	Address.
country	No	String	Body	Country or region that the mobile number belongs to.
description	No	String	Body	Remarks.
domain	No	String	Body	Enterprise domain name.
email	No	String	Body	Email address, in the format of (^\$ ^[\w-+]+([\w-+]+)@[\w-]+([\w-]+)([\w-]{1,})\$).
fax	No	String	Body	Fax number, in the format of ^\$ ^[\w-+]?[0-9]+\$.
language	No	String	Body	Voice language. Options: zh-CN and en-US .

Parameter	Mandatory	Type	Location	Description
name	Yes	String	Body	Enterprise name, in the format of <code>^[^#%&'<>="'\?*\.\-\/]*\$</code> .
phone	No	String	Body	Mobile number. The mobile number must contain the country code, for example, a mobile number in Chinese mainland is +86 xxxxxxxx. This parameter is combined with the country parameter. The mobile number is in the format of <code>(^\\$^[+]?[0-9]+\$)</code> .
spId	No	String	Body	ID of the SP to which the enterprise belongs. This parameter is returned only during query.
timeZoneId	No	String	Body	Time zone ID. For example, the time zone ID of Beijing GMT+08:00 is 56 . For details about the mapping between time zone IDs and time zones, see Time Zone Table .

Table 7-22 AddCorpResDTO data structure

Parameter	Mandatory	Type	Location	Description
resource	No	Array of ResourceDTO objects	Body	List of resources to be added to the enterprise.

Table 7-23 OrgPropertyDTO data structure

Parameter	Mandatory	Type	Location	Description
propertyKey	No	String	Body	Configuration item key. To enable local recording, set this parameter to enableClientRecord .
propertyValue	No	String	Body	Configuration item value. To enable local recording, set this parameter to true .

Table 7-24 ResourceDTO data structure

Parameter	Mandatory	Type	Location	Description
id	No	String	Body	Resource ID. If this parameter is not passed, the value is automatically generated.
count	Yes	Integer	Body	Resource quantity.
expireDate	Yes	Long	Body	UTC time when the resource expires.

Parameter	Mandatory	Type	Location	Description
type	Yes	String	Body	Resource type. <ul style="list-style-type: none">• VMR: cloud meeting room.• CONF_CALL: concurrent participant.• HARD_1080P: 1080p hard terminal access account.• HARD_720P: 720p hard terminal access account.• SOFT: user account.• ROOM: whiteboard account.• LIVE: live broadcast port.• RECORD: recording storage space.• HARD_THIRD_PARTY: third-party hard terminal access account.• HUAWEI_VISION: smart TV account.• IDEA_HUB - ideahub

Parameter	Mandatory	Type	Location	Description
typeld	No	String	Body	<p>Resource type ID. For example, cloud meeting rooms can be divided into 5-participant and 10-participant cloud meeting rooms. In this case, the resource type is cloud meeting room, and typeld is vmrPkgId. vmrPkgId is used to distinguish the following resource subtypes:</p> <ul style="list-style-type: none"> • vmr10:ff808081699b56d40169c410d5080179 • vmr50:ff808081699b56cb0169c411a0980152 • vmr100:ff808081699b56cb0169c41167850151 • vmr200:ff808081699b56d40169c410913d0178 • vmr25:ff808081699b56d40169c4111fe5017a • vmr300:ff8080816b9ec3ab016bdf237962e83 • vmr400:ff8080816b9ec375016bdf37efc279f • vmr500:ff8080816b9ec3ab016bdf338542e84

Status Codes

Table 7-25 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 7-26 Response Parameters

Parameter	Type	Description
value	String	Response.

Example Request

```
POST /v1/usg/dcs/sp/corp
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 561
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "adminInfo": {
    "account": "zhangsan@corp",
    "country": "chinaPR",
    "email": "*****",
    "name": "zhangsan",
    "phone": "+86191****9092",
    "pwd": "*****"
  },
  "basicInfo": {
    "address": "Hangzhou, Zhejiang",
    "country": "chinaPR",
    "description": "description",
    "domain": "huawei.com",
    "email": "*****",
    "fax": "+123456789",
    "language": "zh-CN",
    "name": "Huawei Technologies Co., Ltd.",
    "phone": "+86191****9092",
    "spld": "",
    "timeZoneId": "56"
  },
  "groupId": "297e87ec7713734b01771458c2d80000",
  "resInfo": {
    "resource": [
      {
        "count": 10,
        "expireDate": 2549030400000,
        "id": "36f2c0117cf14c3db61a7880eb73cee6",
        "type": "VMR",
        "typeId": "2c90bb2871e577590171e57bfec908b2"
      }
    ]
  }
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 21
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
```

```
X-Request-Id: 43689056504b4ff22663262d44e141aa
```

```
{  
  "value": "818803911"  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbVbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOF' -d '{"account": "zhangsan@corp", "country": "chinaPR", "email": "*****", "name": "zhangsan", "phone": "+86191****9092", "pwd": "*****", "sendNotify": false, "basicInfo": {"address": "Hangzhou Zhejiang", "country": "chinaPR", "description": "description", "domain": "huawei.com", "email": "*****", "fax": "+123456789", "language": "zh-CN", "name": "Huawei Technologies Co., Ltd.", "phone": "+86191****9092", "spId": "", "timeZoneId": "56"}, "groupId": "297e87ec7713734b01771458c2d80000", "resInfo": {"resource": [{"count": 10, "expireDate": 2549030400000, "id": "36f2c0117cf14c3db61a7880eb73cee6", "type": "VMR", "typeId": "2c90bb2871e577590171e57bfec908b2"}]}' https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp
```

7.2.6 Deleting an Enterprise as an SP Administrator

Description

This API is used by an SP administrator to delete an enterprise.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-27 Prototype

Request Method	DELETE
Request Address	/v1/usg/dcs/sp/corp/{id}
Transport Protocol	HTTPS

Request Parameters

Table 7-28 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Enterprise ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 7-29 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE https://{endpoint}/v1/usg/dcs/sp/corp/818803911
Connection: keep-alive
```

```
X-Access-Token: stbVbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOF  
Host: api.meeting.huaweicloud.com  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Connection: keep-alive  
Pragma: No-cache  
Cache-Control: no-cache  
Server: api-gateway  
X-Request-Id: e357bbd28e40603ff1316df467e729af
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki' https://  
api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/818803911
```

7.2.7 Querying Enterprise Details as an SP Administrator

Description

This API is used to query enterprise details as an SP administrator.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-30 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/sp/corp/{id}
Transport Protocol	HTTPS

Request Parameters

Table 7-31 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Enterprise ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 7-32 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 7-33 Response parameters

Parameter	Type	Description
adminInfo	QueryAdminResultDTO object	Administrator details.
basicInfo	QueryCorpBasicResultDTO object	Basic enterprise details.
groupDTO	OrgGroupDTO object	Media ingestion (including SBC and MCU) group information.
id	String	Enterprise ID.
resInfo	QueryCorpResourceResultDTO object	Enterprise resource details.

Table 7-34 QueryAdminResultDTO data structure

Parameter	Type	Description
account	String	Huawei Cloud Meeting account of the user.
adminType	Integer	Administrator type. <ul style="list-style-type: none"> 0: default administrator. 1: common administrator.
country	String	Country or region that the mobile number of the user belongs to.
email	String	Email address.
id	String	User UUID.
name	String	Administrator name.
phone	String	Mobile number.

Table 7-35 QueryCorpBasicResultDTO data structure

Parameter	Type	Description
address	String	Address.
country	String	Country or region that the mobile number belongs to.

Parameter	Type	Description
description	String	Remarks.
email	String	Email address.
fax	String	Fax number.
name	String	Enterprise name.
phone	String	Phone number.
spld	String	ID of the SP to which the enterprise belongs.

Table 7-36 OrgGroupDTO data structure

Parameter	Type	Description
groupId	String	Group ID.
groupName	String	Group name.

Table 7-37 QueryCorpResResultDTO data structure

Parameter	Type	Description
corpVcRes	QueryCorpVcResResultDTO object	Enterprise resource details.

Table 7-38 QueryCorpVcResResultDTO data structure

Parameter	Type	Description
confCallCount	Integer	Number of concurrent participants.
hwVisionCount	Integer	Number of smart TV access accounts.
ideaHubCount	Integer	Number of IdeaHub access accounts.
liveCount	Integer	Number of live broadcast ports.
recordCapability	Integer	Recording storage space, in GB.
roomCount	Integer	Number of whiteboard (SmartRooms) access accounts.
te1080pHardCount	Integer	Number of 1080p hard terminal access accounts.

Parameter	Type	Description
te720pHardCount	Integer	Number of 720p hard terminal access accounts.
teSoftCount	Integer	Number of soft client accounts.
thirdPartyHardCount	Integer	Number of third-party hard terminal access accounts.
vmrPkgList	Array of QueryVmrPkgResResultDTO objects	List of cloud meeting room types.

Table 7-39 QueryVmrPkgResResultDTO data structure

Parameter	Type	Description
vmrName	String	Name of a cloud meeting room package.
vmrPkgCount	Integer	Number of cloud meeting room packages of this specification.
vmrPkgId	String	ID of the cloud meeting room package.
vmrPkgParties	Integer	Number of concurrent participants in the cloud meeting room package.
vmrPkgUsedCount	Integer	Number of allocated cloud meeting room packages of this specification.

Example Request

```
GET /v1/usg/dcs/sp/corp/818803911
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPIoBIR3ig8xnVScQOF
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290

{
  "adminInfo": {
    "account": "zhangsan@corp",
    "adminType": 0,
```

```
"country": "chinaPR",
"email": "*****",
"id": "58eed901985149899b966242e0a7d644",
"name": "zhangsan",
"phone": "+86191****9092"
},
"basicInfo": {
"address": "Hangzhou, Zhejiang",
"country": "chinaPR",
"description": "description",
"email": "*****",
"fax": "+123456789",
"name": "Huawei Technologies Co., Ltd.",
"phone": "+86191****9092",
"spId": "8a8d1384700be6870170117caca923af"
},
"resInfo": {
"corpVcRes": {
"confCallCount": 100,
"hwVisionCount": 0,
"ideaHubCount": 0,
"liveCount": 0,
"recordCapability": 0,
"roomCount": 0,
"te1080pHardCount": 100,
"te720pHardCount": 100,
"teSoftCount": 100,
"thirdPartyHardCount": 100,
"vmrPkgList": [
{
"vmrName": "Large cloud meeting room-50 participants",
"vmrPkgCount": 10,
"vmrPkgId": "ff808081699b56cb0169c411a0980152",
"vmrPkgParties": 50,
"vmrPkgUsedCount": 0
}
]
}
}
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMB3qlki' https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/818803911
```

7.2.8 Modifying an Enterprise as an SP Administrator

Description

This API is used to modify an enterprise. If a parameter is null or is not carried, the parameter is not modified.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-40 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/sp/corp/{id}
Transport Protocol	HTTPS

Request Parameters

Table 7-41 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Enterprise ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
adminInfo	No	ModAdminDTO object	Body	Administrator details to modify.
basicInfo	No	ModCorpBasicDTO object	Body	Basic details about the enterprise to be modified.

Parameter	Mandatory	Type	Location	Description
groupId	No	String	Body	Media ingestion (including SBC and MCU) group ID, which can be obtained through the API for Querying Resource Information as an SP Administrator .
propertyInfo	No	Array of OrgPropertyDTO objects	Body	Information about configurable items.

Table 7-42 ModAdminDTO data structure

Parameter	Mandatory	Type	Location	Description
country	No	String	Body	Country or region that the mobile number belongs to. If the mobile number belongs to Chinese mainland, set this parameter to chinaPR . For details, see List of countries or regions that mobile numbers belong to .
email	No	String	Body	Email address.
name	No	String	Body	Administrator name.
phone	No	String	Body	Mobile number. The mobile number must contain the country or region code, for example, +86xxxxxxx for a mobile number in Chinese mainland. The country parameter is mandatory when you enter the mobile number.

Table 7-43 ModCorpBasicDTO data structure

Parameter	Mandatory	Type	Location	Description
address	No	String	Body	Address.
country	No	String	Body	Country or region that the mobile number belongs to.
description	No	String	Body	Remarks.
email	No	String	Body	Email address, in the format of (^\$ ^[\w-+]+([\w-+]+)@[\w-]+([\w-+]+)([\w-]{1,})\$).
fax	No	String	Body	Fax number, in the format of ^\$ ^[+]?[0-9]+\$.
name	No	String	Body	Enterprise name, in the format of ^[^#%&'!+;<>="''??.\...../]*\$.
phone	No	String	Body	Mobile number. The mobile number must contain the country code, for example, a mobile number in Chinese mainland is +86 xxxxxxxx. This parameter is combined with the country parameter. The mobile number is in the format of (^\$ ^[+]?[0-9]+\$).

Status Codes

Table 7-44 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/sp/corp/818803911
Connection: keep-alive
Content-Type: application/json
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Length: 173
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "adminInfo": {
    "country": "chinaPR",
    "email": "*****",
    "name": "zhangsan@corp",
    "phone": "+86191****9092"
  },
  "basicInfo": {
    "country": "chinaPR",
    "description": "description",
    "email": "*****",
    "fax": "+123456789",
    "name": "Huawei Technologies Co., Ltd.",
    "phone": "+86191****9092"
  },
  "groupId": "297e87ec7713734b01771458c2d80000",
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 26701eb8f982b175b70776316d46e345
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:
stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF' -d '{"adminInfo": {"country": "chinaPR", "email":
"*****", "name": "zhangsan@corp", "phone": "+86191****9092"}, "basicInfo": {"country":
"chinaPR", "description": "description", "email": "*****", "fax": "+123456789", "name": "Huawei Technologies
Co., Ltd.", "phone": "+86191****9092"}, "groupId": "297e87ec7713734b01771458c2d80000"}'
https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/818803911
```

7.2.9 Querying Enterprises in Pages as an SP Administrator

Description

This API is used by an SP administrator to query enterprises in pages.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 7-45 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/sp/corp
Transport Protocol	HTTPS

Request Parameters

Table 7-46 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to be queried. Default value: 10 .
searchKey	No	Integer	Query	Search criteria. Fuzzy search by name, mobile number, email address, and account is supported.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 7-47 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 7-48 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryCorpResultDTO objects	Enterprise details.

Example Request

```
GET /v1/usg/dcs/sp/corp?offset=0&limit=5&searchKey=818803911
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 63facce44898efa03629afd189da7f0f

{
  "count": 1,
  "data": {
    "adminInfo": {
      "account": "zhangsan@corp",
      "adminType": 0,
      "country": "chinaPR",
      "email": "*****",
      "id": "58eed901985149899b966242e0a7d644",
      "name": "zhangsan",
      "phone": "+86191****9092"
    },
    "basicInfo": {
      "address": "Hangzhou, Zhejiang",
      "country": "chinaPR",
      "description": "description",
      "email": "*****",
      "fax": "+123456789",
      "name": "Huawei Technologies Co., Ltd.",
      "phone": "+86191****9092",
      "spId": "8a8d1384700be6870170117caca923af"
    },
    "id": 818803911,
    "resInfo": {
      "corpVcRes": {
        "confCallCount": 100,
        "hwVisionCount": 0,
        "ideaHubCount": 0,
        "liveCount": 0,
        "recordCapability": 0,
        "roomCount": 0,
        "te1080pHardCount": 100,
        "te720pHardCount": 100,
        "teSoftCount": 100,
        "thirdPartyHardCount": 100,
        "vmrPkgList": [
          {
            "vmrName": "Large cloud meeting room-50 participants",
            "vmrPkgCount": 10,
            "vmrPkgId": "ff808081699b56cb0169c411a0980152",
            "vmrPkgParties": 50,
            "vmrPkgUsedCount": 0
          }
        ]
      }
    }
  },
  "limit": 5,
```

```
"offset": 0  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbVbWSIgzfQQ8JnbmPloBIR3ig8xnVScQOF'  
https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp?offset=0&limit=5&searchKey=818803911
```

8 Department Management

8.1 Examples

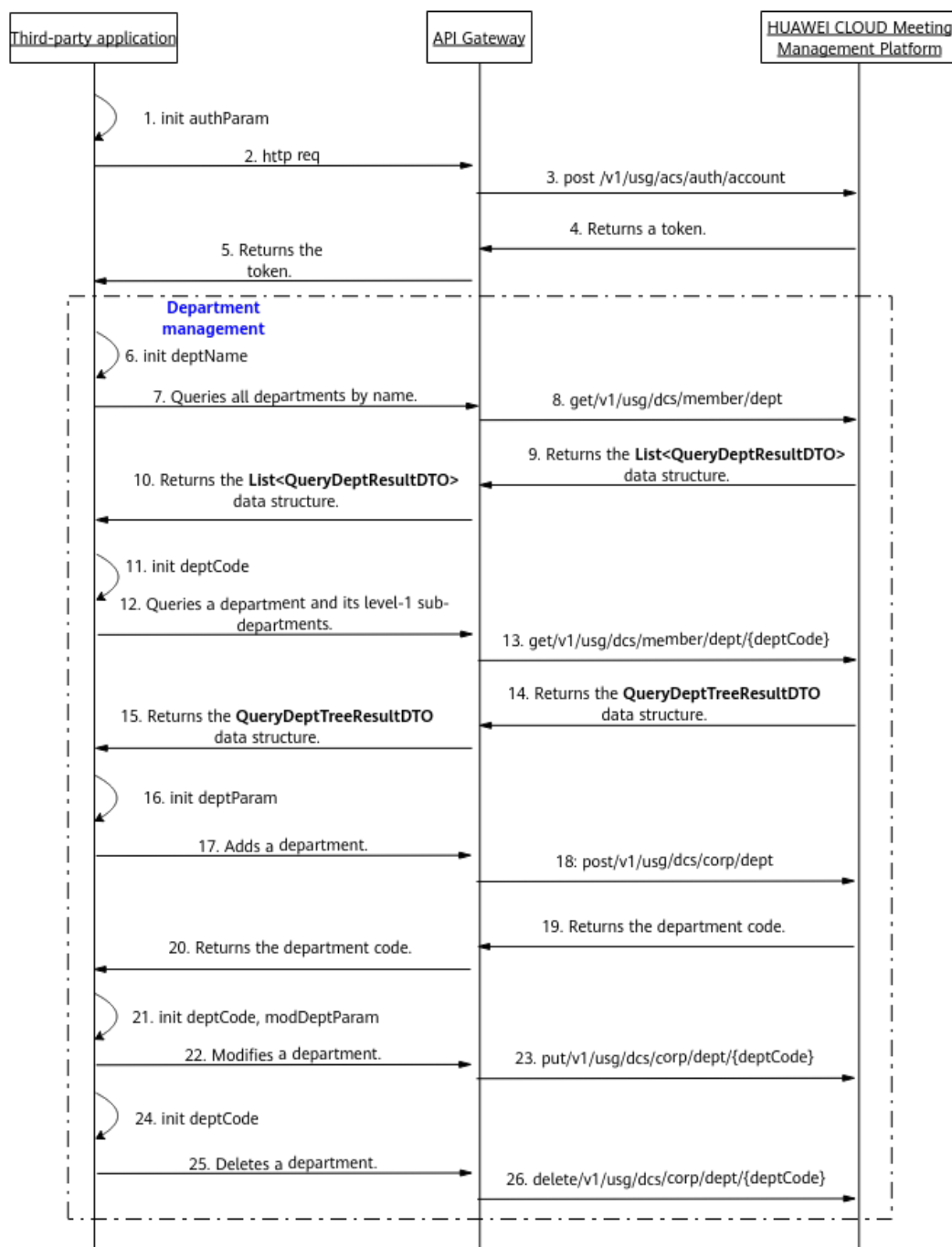
8.1.1 Managing Departments

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using an enterprise administrator account on a third-party application, you can query, modify, add, and delete all departments in the enterprise.

Service Process

Figure 8-1 Department management process



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise administrator account and password to obtain a token.
2. The third-party application sends an authentication request to API Gateway.
3. After receiving the request, API Gateway sends an account authentication request to Huawei Cloud Meeting Management Platform.

4. Huawei Cloud Meeting Management Platform returns a token after successful authentication.
 5. API Gateway returns the token information to the third-party application.
 6. To query enterprise departments by name, the third-party application sends a request carrying the department name parameter to API Gateway.
 7. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain all departments of the enterprise by name.
 8. Huawei Cloud Meeting Management Platform returns the list of matched departments to API Gateway.
 9. API Gateway returns the department list to the third-party application.
 10. To query a specific department and its level-1 sub-departments, the third-party application sends a request carrying the department code to API Gateway.
 11. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query the specified department and its level-1 sub-departments.
 12. Huawei Cloud Meeting Management Platform returns the department details to API Gateway.
 13. API Gateway returns the department details to the third-party application.
 14. To add a department, the third-party application sends a request carrying the department parameters to API Gateway.
 15. API Gateway sends a request to Huawei Cloud Meeting Management Platform to add the department.
 16. Huawei Cloud Meeting Management Platform adds the department and returns the new department code to API Gateway.
 17. API Gateway returns the new department code to the third-party application.
 18. To modify a department, the third-party application sends a request carrying the department code and the modified department parameters to API Gateway.
 19. API Gateway sends a request to Huawei Cloud Meeting Management Platform to modify the department.
 20. Huawei Cloud Meeting Management Platform modifies the department details.
 21. To delete a department, the third-party application sends a request carrying the department code to API Gateway.
 22. API Gateway sends a request to Huawei Cloud Meeting Management Platform to delete the department.
 23. Huawei Cloud Meeting Management Platform deletes the department.
- The department management APIs shown from steps 6 to 26 in the preceding figure can be called in any sequence.

8.2 APIs

8.2.1 Adding a Department

Description

This API is used by an enterprise administrator to add a department. Up to 10 levels of departments with up to 100 sub-departments at each level can be added. By default, an enterprise can have up to 10,000 departments.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 8-1 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/dept
Transport Protocol	HTTPS

Request Parameters

Table 8-2 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
deptCode	No	String	Body	Unique department code in the enterprise. If this parameter is carried, the actual value is used and cannot be changed. The value can contain up to 32 characters.
deptName	Yes	String	Body	Department name. maxLength : 128 minLength : 1
parentDeptCode	No	String	Body	Parent department code. The default value is the root department code. Default value: 1 . The value can contain up to 32 characters.
note	No	String	Body	Remarks. maxLength : 96 minLength : 0
inPermission	No	String	Body	Permissions of users in other departments for accessing details of uses in this department. <ul style="list-style-type: none"> • UNLIMITED: not restricted. This is the default value. • OPEN: Details of users in this department are accessible to other departments (regardless of others' permission configurations).

Parameter	Mandatory	Type	Location	Description
outPermission	No	String	Body	<p>Permissions of users in this department for accessing details of users in other departments.</p> <ul style="list-style-type: none"> • UNLIMITED: not restricted. • ONLY_SELF: Users in this department can only query details about themselves. • SELF_AND_CHILD_DEPARTMENT: Users in the department can query details of the department and its sub-departments. • DESIGNATED_DEPARTMENT: Users in this department can query details of specific departments.
designatedOutDeptCodes	No	Array of strings	Body	<p>List of departments that can be accessed. This parameter is valid only when outPermission is set to DESIGNATED_DEPARTMENT. Up to 150 departments can be configured.</p>
sortLevel	No	Integer	Body	<p>Department sequence number. A department with a smaller sequence number is displayed first.</p> <p>minimum: 1 maximum: 10000</p>

Status Codes

Table 8-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 8-4 Response parameters

Parameter	Type	Description
value	String	Department code.

Example Request

```
POST /v1/usg/dcs/corp/dept
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QlzKHg4iqicUBcYMb3qlki
Content-Type: application/json
Content-Length: 31
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "deptName": "test999"
}
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290

{
  "value": "s4f"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki' -d '{"deptName": "test999"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/dept
```

8.2.2 Modifying a Department

Description

This API is used by an enterprise administrator to modify a department.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 8-5 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/corp/dept/{dept_code}
Transport Protocol	HTTPS

Request Parameters

Table 8-6 Parameters

Parameter	Mandatory	Type	Location	Description
deptCode	Yes	String	Path	Department code. The value can contain up to 32 characters.

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
deptName	No	String	Body	Department name. maxLength: 128 minLength: 1
designatedOutDeptCodes	No	Array of strings	Body	List of departments that can be accessed. This parameter is valid only when outPermission is set to DESIGNATED_DEPARTMENT . Up to 150 departments can be configured.

Parameter	Mandatory	Type	Location	Description
inPermission	No	String	Body	<p>Permissions of users in other departments for accessing details of uses in this department.</p> <ul style="list-style-type: none"> • UNLIMITED: not restricted. This is the default value. • OPEN: Details of users in this department are accessible to other departments (regardless of others' permission configurations).
note	No	String	Body	<p>Remarks.</p> <p>maxLength: 96</p> <p>minLength: 0</p>
outPermission	No	String	Body	<p>Permissions of users in this department for accessing details of uses in other departments.</p> <ul style="list-style-type: none"> • UNLIMITED: not restricted. • ONLY_SELF: Users in this department can only query details about themselves. • SELF_AND_CHILD_DEPARTMENT: Users in the department can query details of the department and its sub-departments. • DESIGNATED_DEPARTMENT: Users in this department can query details of specific departments.

Parameter	Mandatory	Type	Location	Description
parentDeptCode	No	String	Body	Parent department code. The value can contain up to 32 characters.
sortLevel	No	Integer	Body	Department sequence number. A department with a smaller sequence number is displayed first. minimum: 1 maximum: 10000

Status Codes

Table 8-7 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/corp/dept/s4f
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QlzKHg4iqicUBcYMb3qlki
Content-Type: application/json
Content-Length: 53
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "deptName": "111111",
  "note": "string"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki' -d '{"deptName": "111111","note": "string"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/dept/s4f
```

8.2.3 Deleting a Department

Description

This API is used by an enterprise administrator to delete a department.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 8-8 Prototype

Request Method	DELETE
Request Address	/v1/usg/dcs/corp/dept/{dept_code}
Transport Protocol	HTTPS

Request Parameters

Table 8-9 Parameters

Parameter	Mandatory	Type	Location	Description
deptCode	Yes	String	Path	Department code. NOTE The root department whose department code is 1 cannot be deleted.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 8-10 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/usg/dcs/corp/dept/s4f
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/dept/s4f
```

8.2.4 Querying a Department and Its Level-1 Sub-departments

Description

This API is used by an enterprise administrator to query a department and its level-1 sub-departments.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 8-11 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/member/dept/{dept_code}
Transport Protocol	HTTPS

Request Parameters

Table 8-12 Parameters

Parameter	Mandatory	Type	Location	Description
deptCode	Yes	String	Path	Department code. NOTE The code of the root department is 1.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 8-13 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 8-14 Response parameters

Parameter	Type	Description
childDepts	Array of QueryDeptResultDTO objects	Sub-department list.
corpId	String	Enterprise ID.
deptCode	String	Department code.
deptCodePath	String	Department code path.
deptLevel	Integer	Department level.
deptName	String	Department name.
deptNamePath	String	Department name path.
designatedOutDeptCodes	Array of IdMarkDTO objects	List of departments that are allowed to access this department.
inPermission	String	Permissions of users in other departments for accessing details of uses in this department.
isLeafNode	Boolean	Whether the department is a leaf node.
note	String	Remarks.
outPermission	String	Permissions of users in this department for accessing details of uses in other departments.
parentDeptCode	String	ID of the parent department.
sortLevel	Integer	Department sequence number.

Table 8-15 QueryDeptResultDTO data structure

Parameter	Type	Description
corpId	String	Enterprise ID.
deptCode	String	Department code, which is unique in an enterprise.
deptCodePath	String	Department code path.
deptLevel	Integer	Department level.

Parameter	Type	Description
deptName	String	Department name.
deptNamePath	String	Department name path.
designatedOutDeptCodes	Array of IdMarkDTO objects	List of departments that are allowed to access this department.
inPermission	String	Permissions of users in other departments for accessing details of uses in this department.
isLeafNode	Boolean	Whether the department is a leaf node.
note	String	Remarks.
outPermission	String	Permissions of users in this department for accessing details of uses in other departments.
parentDeptCode	String	ID of the parent department.
sortLevel	Integer	Department sequence number.

Table 8-16 IdMarkDTO data structure

Parameter	Type	Description
id	String	Department code.
mark	String	Command output description corresponding to the ID, which is generally the name.

Example Request

```
GET /v1/usg/dcs/member/dept/1
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
{
```

```
"corpId": "15659",
"deptCode": "1",
"deptLevel": 1,
"deptName": "wangyue",
"deptNamePath": "wangyue",
"isLeafNode": false,
"parentDeptCode": null,
"deptCodePath": "1",
"note": null,
"inPermission": "UNLIMITED",
"outPermission": "UNLIMITED",
"designatedOutDeptCodes": [],
"sortLevel": 1000,
"childDepts": [
  {
    "deptCode": "U5b",
    "deptLevel": 2,
    "deptName": "openTest001",
    "deptNamePath": "wangyue#openTest001",
    "isLeafNode": true,
    "parentDeptCode": "1",
    "deptCodePath": "1#U5b",
    "note": null,
    "corpId": "15659",
    "inPermission": "UNLIMITED",
    "outPermission": "UNLIMITED",
    "sortLevel": 10000,
    "designatedOutDeptCodes": []
  }
]
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qIki' https://api.meeting.huaweicloud.com/v1/usg/dcs/member/dept/1
```

8.2.5 Querying All Departments by Name

Description

This API is used by an enterprise administrator to query all departments by name.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 8-17 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/usg/dcs/member/dept
Transport Protocol	HTTPS

Request Parameters

Table 8-18 Parameters

Parameter	Mandatory	Type	Location	Description
deptName	Yes	String	Query	Department name. The value can contain 1 to 128 characters.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 8-19 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.

HTTP Status Code	Description
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 8-20 Response parameters

Parameter	Type	Description
[Array element]	Array of QueryDeptResultDTO	Department list.

Table 8-21 QueryDeptResultDTO data structure

Parameter	Type	Description
corpId	String	Enterprise ID.
deptCode	String	Department code, which is unique in an enterprise.
deptCodePath	String	Department code path.
deptLevel	Integer	Department level.
deptName	String	Department name.
deptNamePath	String	Department name path.
designatedOutDeptCodes	Array of IdMarkDTO objects	List of departments that are allowed to access this department.
inPermission	String	Permissions of users in other departments for accessing details of uses in this department.
isLeafNode	Boolean	Whether the department is a leaf node.
note	String	Remarks.
outPermission	String	Permissions of users in this department for accessing details of uses in other departments.
parentDeptCode	String	ID of the parent department.

Parameter	Type	Description
sortLevel	Integer	Department sequence number.

Example Request

```
GET /v1/usg/dcs/member/dept?deptName=wangyue
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

```
[
  {
    "deptCode": "1",
    "deptLevel": 1,
    "deptName": "wangyue",
    "deptNamePath": "wangyue",
    "isLeafNode": false,
    "parentDeptCode": null,
    "deptCodePath": "1",
    "note": null,
    "corpId": "15659",
    "inPermission": "UNLIMITED",
    "outPermission": "UNLIMITED",
    "sortLevel": 10000,
    "designatedOutDeptCodes": []
  }
]
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki' https://api.meeting.huaweicloud.com/v1/usg/dcs/member/dept?deptName=wangyue
```

8.2.6 Querying Department Information by Department Code

Description

This API is used to query department information by department code.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 8-22 Prototype

Request Method	GET
Request Address	/v1/usg/abs/departments/{dept_code}
Transport Protocol	HTTPS

Request Parameters

Table 8-23 Parameters

Parameter	Mandatory	Type	Location	Description
dept_code	Yes	String	Path	Department code.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 8-24 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 8-25 QueryDeptResultDTO data structure

Parameter	Type	Description
deptCode	String	Department code.
deptName	String	Department name.
isLeafNodes	Boolean	Whether the department is a leaf node, that is, the department does not have sub-departments.
childDepts	Array of ChildDeptDTO objects	Sub-department details.

Table 8-26 ChildDeptDTO data structure

Parameter	Type	Description
deptCode	String	Department code.
deptName	String	Department name.
isLeafNodes	Boolean	Whether the department is a leaf node, that is, the department does not have sub-departments.

Example Request

```
GET /v1/usg/abs/departments/1
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QlzKHg4iqicUBcYMb3qlki
```

```
Host: api.meeting.huaweicloud.com  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Connection: keep-alive  
Pragma: No-cache  
Cache-Control: no-cache  
Server: api-gateway  
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290  
  
{  
  "deptCode": "1",  
  "deptName": "Root Department",  
  "isLeafNodes": false,  
  "childDepts": [  
    {  
      "deptCode": "rSD4S",  
      "deptName": "Sub-department 1",  
      "isLeafNodes": true  
    },  
    {  
      "deptCode": "OFFNk",  
      "deptName": "Sub-department 2",  
      "isLeafNodes": false  
    },  
    {  
      "deptCode": "ccYgH",  
      "deptName": "Sub-department 3",  
      "isLeafNodes": true  
    }  
  ]  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qIki' https://api.meeting.huaweicloud.com/v1/usg/abs/departments/1
```

9 User Management

9.1 Examples

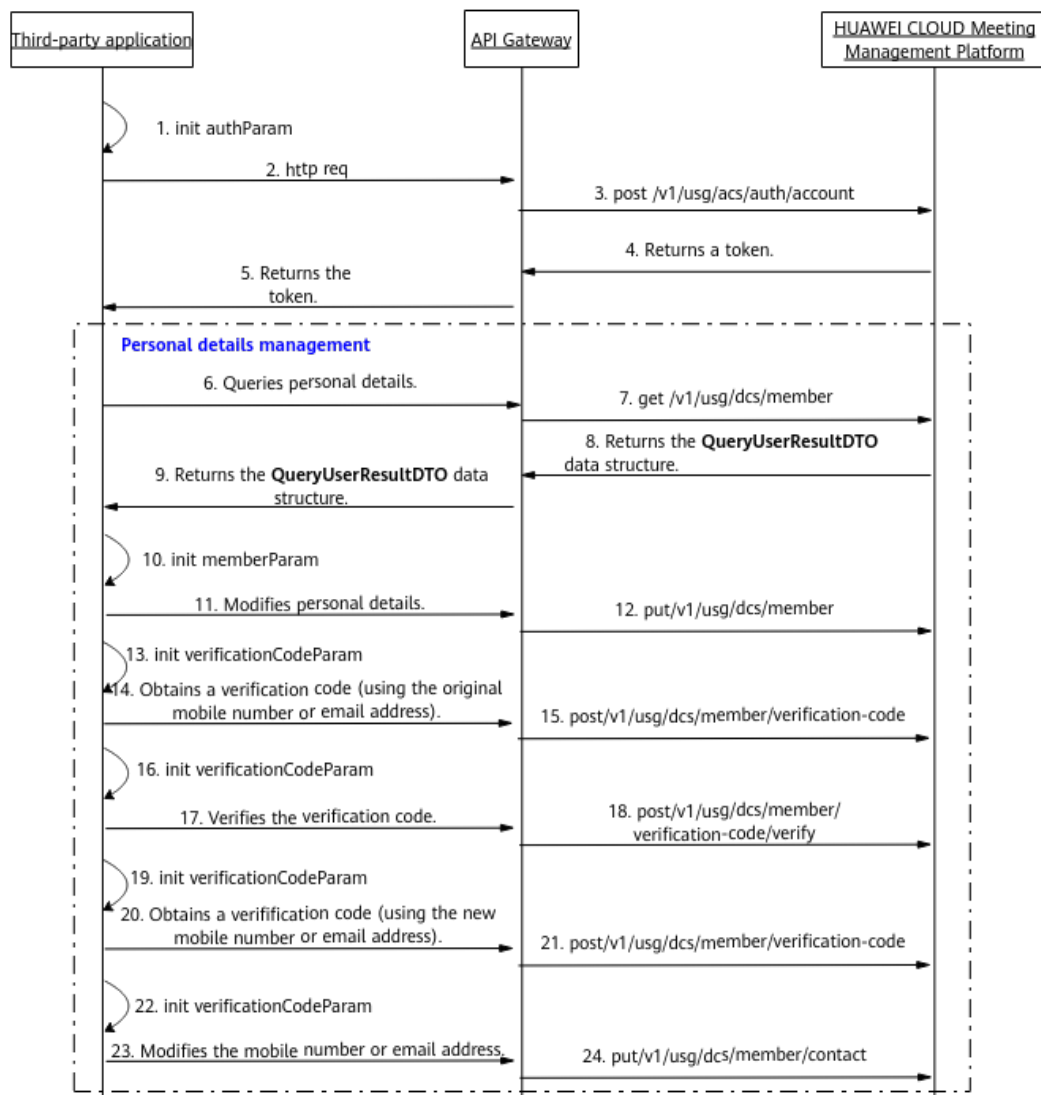
9.1.1 Example 1: Managing Personal Details

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using a user account on a third-party application, you can view and modify personal details, and change the mobile number or email address.

Service Process

Figure 9-1 Process of managing personal details



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise user and password to obtain a token.
2. The third-party application sends an authentication request to API Gateway.
3. After receiving the request, API Gateway sends an account authentication request to Huawei Cloud Meeting Management Platform.
4. Huawei Cloud Meeting Management Platform returns a token after successful authentication.
5. API Gateway returns the token information to the third-party application.
6. The third-party application sends a request to API Gateway to query personal details.
7. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query personal details.

8. Huawei Cloud Meeting Management Platform returns the personal details to API Gateway.
9. API Gateway returns the personal details to the third-party application.
10. To modify personal details, the third-party application sends a request carrying the modified parameters to API Gateway.
11. API Gateway sends a request to Huawei Cloud Meeting Management Platform to modify the personal details.
12. Huawei Cloud Meeting Management Platform modifies the personal details.
13. To change the mobile number or email address, the third-party application sends a request carrying the original mobile number or email address parameters to API Gateway to obtain a verification code.
14. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain a verification code.
15. Huawei Cloud Meeting Management Platform sends a verification code to the original mobile number or email address.
16. The third-party application sends a request carrying the original mobile number or email address and verification code to API Gateway for verification.
17. API Gateway sends a verification request to Huawei Cloud Meeting Management Platform.
18. Huawei Cloud Meeting Management Platform verifies the verification code.
19. After the verification is successful, the third-party application sends a request carrying the new mobile number or email address parameters to API Gateway to obtain a verification code.
20. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain a verification code.
21. Huawei Cloud Meeting Management Platform sends a verification code to the new mobile number or email address.
22. After obtaining the verification code, the third-party application sends a request carrying the new mobile number or email address and verification code to API Gateway.
23. API Gateway sends a request to Huawei Cloud Meeting Management Platform to change the mobile number or email address.
24. Huawei Cloud Meeting Management Platform changes the mobile number or email address.

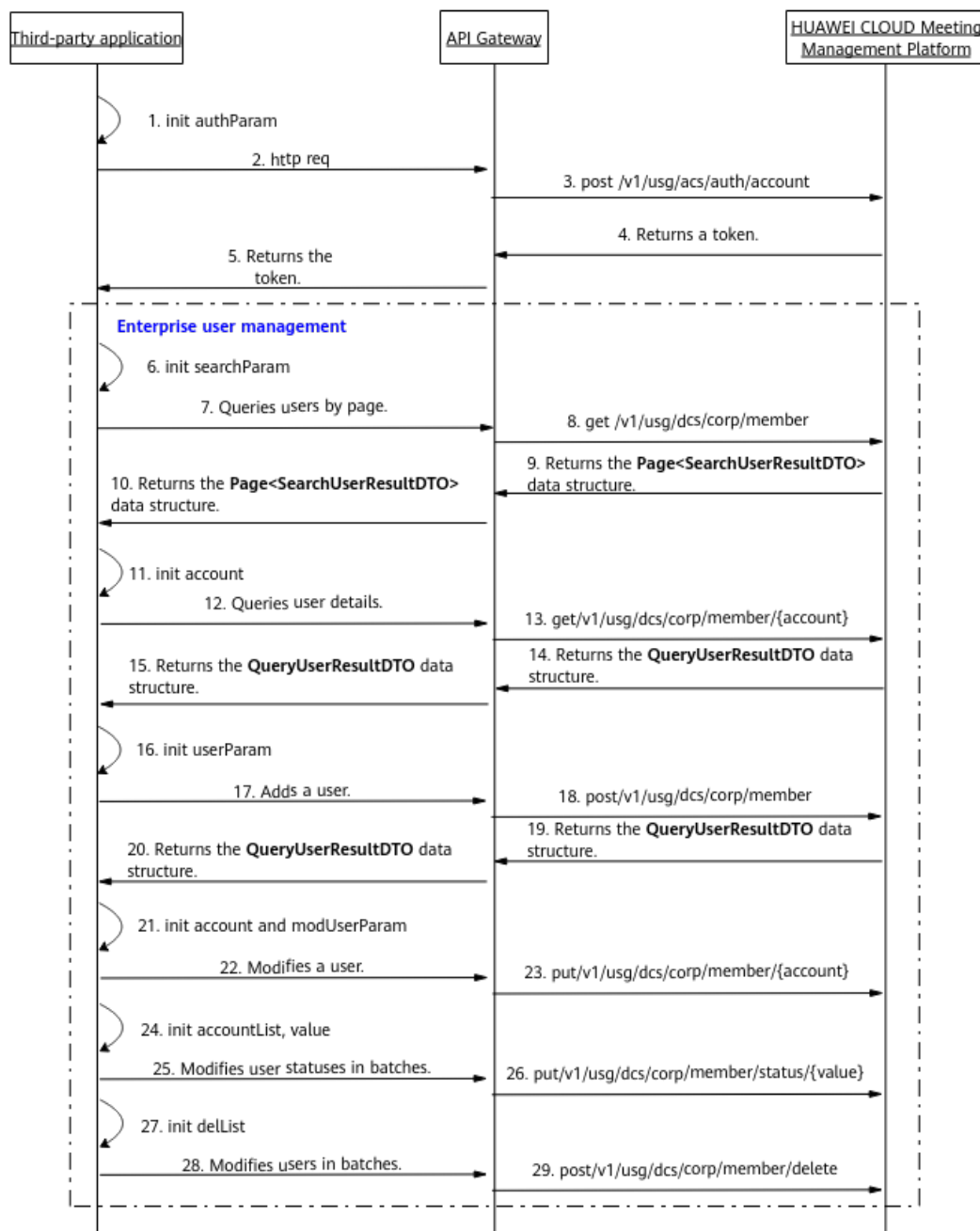
9.1.2 Example 2: Managing Enterprise Users

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using an enterprise administrator account on a third-party application, you can query, add, modify, and delete users in the enterprise.

Service Process

Figure 9-2 Process of managing enterprise users



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise administrator account and password to obtain a token.
2. The third-party application sends an authentication request to API Gateway.
3. After receiving the request, API Gateway sends an account authentication request to Huawei Cloud Meeting Management Platform.
4. Huawei Cloud Meeting Management Platform returns a token after successful authentication.

5. API Gateway returns the token information to the third-party application.
6. To query enterprise users by page, set parameters such as the query offset and search criteria.
7. The third-party application sends a request carrying these parameters to API Gateway to query users by page.
8. API Gateway sends a pagination query request to Huawei Cloud Meeting Management Platform.
9. Huawei Cloud Meeting Management Platform returns the user list to API Gateway.
10. API Gateway returns the user list to the third-party application.
11. To query user details, set the enterprise user account parameters.
12. The third-party application sends a request carrying the user account parameters to API Gateway to query user details.
13. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query user details.
14. Huawei Cloud Meeting Management Platform returns the user details to API Gateway.
15. API Gateway returns the user details to the third-party application.
16. To add a user, set parameters such as the username, user account, and mobile number.
17. The third-party application sends a request carrying these parameters to API Gateway to add a user.
18. API Gateway sends a request to Huawei Cloud Meeting Management Platform to add the user.
19. Huawei Cloud Meeting Management Platform adds the user and returns the details about the new user to API Gateway.
20. API Gateway returns the details about the new user to the third-party application.
21. To modify details about a user, set parameters such as the user account, username, and mobile number.
22. The third-party application sends a request carrying these parameters to API Gateway to modify the user details.
23. API Gateway sends a request to Huawei Cloud Meeting Management Platform to modify the user details. Huawei Cloud Meeting Management Platform modifies the user details.
24. To change the user status in a batch, set the user account list and status.
25. The third-party application sends a request carrying parameters to API Gateway to change the user status in a batch.
26. API Gateway sends the request to Huawei Cloud Meeting Management Platform to change the status of users. Huawei Cloud Meeting Management Platform changes the status of users.
27. To delete users in batches, set the user account list parameter.
28. The third-party application sends a request carrying parameters to API Gateway.

29. API Gateway sends a request to Huawei Cloud Meeting Management Platform to delete users in batches. Huawei Cloud Meeting Management Platform deletes users.
30. Steps 6 to 29 in the preceding figure are APIs for managing users in the enterprise. You can call them in any sequence.

9.2 APIs

9.2.1 Adding a User

Description

This API is used by an enterprise administrator to add a user.

NOTE

By default, a user needs to change the password when logging in to the Huawei Cloud Meeting app or Management Platform for the first time. To disable the function of changing the password upon the first login, contact Huawei sales personnel and provide your Huawei Cloud Meeting enterprise ID.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-1 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/member
Transport Protocol	HTTPS

Request Parameters

Table 9-2 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
account	No	String	Body	<p>Huawei Cloud Meeting user account. If this parameter is carried, the value is used. Otherwise, the value is automatically generated by the backend. The account must be unique in the system.</p> <p>The account can contain letters, numbers, underscores (_), hyphens (-), periods (.), and at signs (@), and cannot contain only numbers. The at sign (@) cannot be followed by a period(.</p> <p>maxLength: 64 minLength: 0</p> <p>NOTE This parameter is mandatory when account/password authentication is used.</p>

Parameter	Mandatory	Type	Location	Description
thirdAccount	No	String	Body	Third-party user ID. The third-party user ID must be unique in the enterprise. NOTE This parameter is mandatory when app ID authentication is used.
country	No	String	Body	Country or region that the mobile number belongs to. Default value: chinaPR . maxLength : 255 minLength : 0
deptCode	No	String	Body	Department code. If this parameter is not carried, the root department is used by default. Default value: 1 .
desc	No	String	Body	Remarks. maxLength : 128 minLength : 0
email	No	String	Body	Email address. maxLength : 255 minLength : 0 NOTE Specify the email address or mobile number. Use the unified email address format. If the enterprise disables the SMS function, the email address is mandatory.
englishName	No	String	Body	English name of the enterprise user. maxLength : 64 minLength : 0
function	No	UserFunctionDTO object	Body	User function flag.

Parameter	Mandatory	Type	Location	Description
hidePhone	No	Boolean	Body	Whether to hide the mobile number. Default value: false . <ul style="list-style-type: none">• true: The mobile number is not displayed in the corporate directory or meetings.• false: The mobile number is displayed in the corporate directory and meetings.
name	Yes	String	Body	Name of the enterprise user. maxLength : 64 minLength : 1
phone	No	String	Body	Mobile number, which must contain the country code. For example, a mobile number in Chinese mainland is +86xxxxxxxxxx . This parameter is combined with the country parameter. The mobile number can contain only numbers. The mobile number or email address must be specified.

Parameter	Mandatory	Type	Location	Description
pwd	No	String	Body	<p>Password of the user account. If this parameter is carried, the actual value is used. Otherwise, the value is generated by the backend by default. The password must meet the following requirements:</p> <ul style="list-style-type: none"> • The password can contain 8 to 32 characters. • The password cannot be the same as the account or the account spelled backwards. • The password must contain at least two of the following: lowercase letters, uppercase letters, numbers, and special characters (^~!@#%&*()-_+= []{};:'<.>/?).
sendNotify	No	String	Body	<p>Whether to send email and SMS notifications for registration.</p> <ul style="list-style-type: none"> • 0: no. • If this parameter is null or set to other values, notifications are sent by default.
signature	No	String	Body	<p>Signature.</p> <p>maxLength: 512</p> <p>minLength: 0</p>
sortLevel	No	Integer	Body	<p>Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory.</p> <p>Default value: 10000.</p> <p>maximum: 10000</p> <p>minimum: 1</p>

Parameter	Mandatory	Type	Location	Description
status	No	Integer	Body	User status. <ul style="list-style-type: none"> • 0: normal. • 1: disabled. Default value: 0 .
title	No	String	Body	Job title. maxLength : 32 minLength : 0

Table 9-3 UserFunctionDTO data structure

Parameter	Mandatory	Type	Location	Description
enableRoom	No	Boolean	Body	Whether to enable the intelligent whiteboard collaboration function. If the function is enabled, the account is used for the intelligent collaborative whiteboard and occupies the whiteboard resources in the enterprise. If the whiteboard resources are insufficient, the function cannot be enabled. Default value: false .

Status Codes

Table 9-4 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.

HTTP Status Code	Description
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 9-5 Response parameters

Parameter	Type	Description
activeTime	Long	Activation time (UTC timestamp).
adminType	Integer	Administrator type. <ul style="list-style-type: none"> • 0: default (super) administrator. • 1: common administrator. • 2: common enterprise member (This value is valid only when UserType is set to 2.)
corp	CorpBasicInfoDTO object	Enterprise registration details, which are returned only when users query the personal details of themselves.
country	String	Country or region that the mobile number of the user belongs to.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
desc	String	Remarks.
devType	QueryDeviceInfoResultDTO object	Type of the associated device.
email	String	Email address.
englishName	String	English name.
function	UserFunctionDTO object	User function flag.
hidePhone	Boolean	Whether to hide the mobile number.
id	String	User UUID.

Parameter	Type	Description
license	Integer	License. <ul style="list-style-type: none">● 0: commercial use.● 1: free trial.
name	String	Name.
phone	String	Mobile number.
signature	String	Signature.
sipNum	String	SIP number.
sortLevel	Integer	Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory.
status	Integer	User status. <ul style="list-style-type: none">● 0: normal.● 1: disabled.
thirdAccount	String	Third-party user ID.
title	String	Job title.
userAccount	String	Huawei Cloud Meeting account.
userType	Integer	User type. <ul style="list-style-type: none">● 2: common user.● 12: smart TV user.● 13: IdeaHub user.● 14: SmartRooms user.
visionAccount	String	Unique smart TV account.
vmrList	Array of UserVmrDTO objects	Cloud meeting room list.

Table 9-6 QueryDeviceInfoResultDTO data structure

Parameter	Type	Description
deviceSize	String	Device dimensions.
model	String	Device model.
purchaseChannel	String	Device purchase channel.

Example Request

```
POST /v1/usg/dcs/corp/member
Connection: keep-alive
Content-Type: application/json
X-Access-Token: stb7PzruAmA6d3JJD578jLAHczGfN4Slaup9
Content-Length: 173
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "englishName": "englishName",
  "country": "chinaPR",
  "signature": "signature-info",
  "hidePhone": false,
  "sendNotify": "0",
  "title": "manager",
  "sortLevel": 100000,
  "phone": "+86173****9807",
  "function": {
    "enableRoom": true
  },
  "name": "name",
  "pwd": "*****",
  "account": "3e48b79b660e403cb5e0208f7be83961",
  "email": "*****",
  "deptCode": "1",
  "desc": "desc",
  "status": "status"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 160
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Expires: Thu, 01 Jan 1970 00:00:00 GMT
Server: api-gateway
X-Request-Id: ebbb9b1e50d1ec63b78d8484d170173f

{
  "id": "f521bebcbb27422cb3241c4cb19942c5",
  "userAccount": "3e48b79b660e403cb5e0208f7be83961",
  "name": "name",
  "englishName": "englishName",
  "phone": "+86173****9807",
  "country": "chinaPR",
  "email": "*****",
  "sipNum": "+8657198480",
  "deptCode": "1",
  "deptName": "Root Department",
  "deptNamePath": "Root Department",
  "userType": 2,
  "adminType": 2,
  "signature": "signature-info",
  "title": "manager",
  "desc": "desc",
  "corp": null,
  "function": {
    "enableRoom": true
  },
  "devType": {
    "model": null,
    "deviceSize": null,
    "purchaseChannel": null
  }
}
```



```
},
"status": 0,
"sortLevel": 10000,
"hidePhone": false,
"visionAccount": null,
"thirdAccount": "thirdAccount",
"license": 0,
"activeTime": 1601221696783,
"vmrList": [
  {
    "id": "2c908bc76f61a5f2016f61bbfdf5039b",
    "vmrId": "912992631",
    "vmrName": "name's cloud meeting room",
    "vmrPkgId": null,
    "vmrPkgName": null,
    "vmrPkgParties": null,
    "vmrPkgLength": null,
    "status": "0"
  }
]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9' -d '{"account": "test963", "country": "chinaPR", "deptCode": "1", "email": "*****", "name": "test963", "phone": "+86136*****", "pwd": "*****"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/member
```

9.2.2 Modifying a User

Description

This API is used by an enterprise administrator to modify a user.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-7 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/corp/member/{account}
Transport Protocol	HTTPS

Request Parameters

Table 9-8 Parameters

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Path	Account. <ul style="list-style-type: none"> If the account and password authentication mode is used, the value is a Huawei Cloud Meeting account. If the app ID authentication mode is used, the value is a third-party user ID.
accountType	No	Integer	Query	Account type. Default value: 0 . <ul style="list-style-type: none"> 0: Huawei Cloud Meeting account, which is used for account and password authentication. 1: third-party user ID, which is used for app ID authentication.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Parameter	Mandatory	Type	Location	Description
country	No	String	Body	Country or region that the mobile number belongs to. Default value: chinaPR . maxLength : 255 minLength : 0
deptCode	No	String	Body	Department code. If this parameter is not carried, the root department is used by default. Default value: 1 .
desc	No	String	Body	Remarks. maxLength : 128 minLength : 0
email	No	String	Body	Email address.
englishName	No	String	Body	English name of the enterprise user. maxLength : 64 minLength : 0
hidePhone	No	Boolean	Body	Whether to hide the mobile number. Default value: false .
name	No	String	Body	Name of the enterprise user. maxLength : 64 minLength : 1
phone	No	String	Body	Mobile number, which must contain the country code. For example, a mobile number in Chinese mainland is +86xxxxxxxxxx . This parameter is combined with the country parameter. The mobile number can contain only numbers. The mobile number or email address must be specified.

Parameter	Mandatory	Type	Location	Description
signature	No	String	Body	Signature. maxLength: 512 minLength: 0
sortLevel	No	Integer	Body	Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory. Default value: 10000 . maximum: 10000 minimum: 1
status	No	Integer	Body	User status. <ul style="list-style-type: none">• 0: normal.• 1: disabled. Default value: 0 .
title	No	String	Body	Job title. maxLength: 32 minLength: 0
vmrId	No	String	Body	Cloud meeting room ID. If this parameter is not carried, the cloud meeting room ID will be automatically generated.

Status Codes

Table 9-9 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 9-10 Response parameters

Parameter	Type	Description
activeTime	Long	Activation time (UTC timestamp).
adminType	Integer	Administrator type. <ul style="list-style-type: none"> • 0: default (super) administrator. • 1: common administrator. • 2: common enterprise member (This value is valid only when UserType is set to 2.)
corp	CorpBasicInfoDTO object	Enterprise registration details, which are returned only when users query the personal details of themselves.
country	String	Country or region that the mobile number of the user belongs to.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
desc	String	Remarks.
devType	QueryDeviceInfoResultDTO object	Type of the associated device.
email	String	Email address.
englishName	String	English name.
function	UserFunctionDTO object	User function flag.
hidePhone	Boolean	Whether to hide the mobile number.
id	String	User ID.
license	Integer	License. <ul style="list-style-type: none"> • 0: commercial use. • 1: free trial.
name	String	Name.
phone	String	Mobile number.
signature	String	Signature.
sipNum	String	SIP number.

Parameter	Type	Description
sortLevel	Integer	Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory.
status	Integer	User status. <ul style="list-style-type: none"> ● 0: normal. ● 1: disabled.
thirdAccount	String	Third-party user ID.
title	String	Job title.
userAccount	String	Huawei Cloud Meeting account.
userType	Integer	User type. <ul style="list-style-type: none"> 2: enterprise member.
visionAccount	String	Unique smart TV account.
vmrList	Array of UserVmrDTO objects	Cloud meeting room list.

Example Request

```

PUT /v1/usg/dcs/corp/member/3e48b79b660e403cb5e0208f7be83961?accountType=0
Connection: keep-alive
Content-Type: application/json
X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9
Content-Length: 173
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "country": "chinaPR",
  "deptCode": "1",
  "desc": "modDesc",
  "email": "*****",
  "englishName": "modEnglishName",
  "hidePhone": true,
  "name": "modName",
  "phone": "+86173****9807",
  "signature": "modSignature",
  "sortLevel": 1,
  "status": 1,
  "title": "modTitle",
  "vmrId": ""
}

```

Example Response

```

HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache

```

```
Server: api-gateway
X-Request-Id: 26701eb8f982b175b70776316d46e33e

{
  "activeTime": 1601221696783,
  "adminType": 2,
  "corp": null,
  "country": "chinaPR",
  "deptCode": "1",
  "deptName": "Root Department",
  "deptNamePath": "Root Department",
  "desc": "modDesc",
  "devType": {
    "deviceSize": null,
    "model": null,
    "purchaseChannel": null
  },
  "email": "*****",
  "englishName": "modEnglishName",
  "function": {
    "enableRoom": true
  },
  "hidePhone": true,
  "id": "f521bebcbb27422cb3241c4cb19942c5",
  "license": 0,
  "name": "modName",
  "phone": "+86173***9807",
  "signature": "modSignature",
  "sipNum": "+8657198480",
  "sortLevel": 1,
  "status": 1,
  "thirdAccount": "thirdAccount",
  "title": "modTitle",
  "userAccount": "3e48b79b660e403cb5e0208f7be83961",
  "userType": 2,
  "visionAccount": null,
  "vmrList": [
    {
      "id": "2c908bc76f61a5f2016f61bbfdf5039b",
      "status": "0",
      "vmrId": "912992631",
      "vmrName": "name's cloud meeting room",
      "vmrPkgId": null,
      "vmrPkgLength": null,
      "vmrPkgName": null,
      "vmrPkgParties": null
    }
  ]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:
stb7PzruAmA6d3JJD578jIAHczGfN4Slaup9' -d '{"country": "chinaPR","deptCode": "1","desc":
"modDesc","email": "*****","englishName": "modEnglishName","hidePhone": true,"name":
"modName","phone": "+86173***9807","signature": "modSignature","sortLevel": 1,"status": 1,"title":
"modTitle","vmrId": ""}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/member/
3e48b79b660e403cb5e0208f7be83961?accountType=0
```

9.2.3 Querying User Details

Description

This API is used by an enterprise administrator to query details about an enterprise user.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-11 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/member/{account}
Transport Protocol	HTTPS

Request Parameters

Table 9-12 Parameters

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Path	Account. <ul style="list-style-type: none">• If the account and password authentication mode is used, the value is a Huawei Cloud Meeting account.• If the app ID authentication mode is used, the value is a third-party user ID.

Parameter	Mandatory	Type	Location	Description
accountType	No	Integer	Query	Account type. Default value: 0 . <ul style="list-style-type: none"> 0: Huawei Cloud Meeting account, which is used for account and password authentication. 1: third-party user ID, which is used for app ID authentication.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 9-13 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

Table 9-14 Response parameters

Parameter	Type	Description
activeTime	Long	Activation time (UTC timestamp).
adminType	Integer	Administrator type. <ul style="list-style-type: none"> • 0: default (super) administrator. • 1: common administrator. • 2: common enterprise member (This value is valid only when UserType is set to 2.)
corp	CorpBasicInfoDTO object	Enterprise registration details, which are returned only when users query the personal details of themselves.
country	String	Country or region that the mobile number of the user belongs to.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
desc	String	Remarks.
devType	QueryDeviceInfoResultDTO object	Type of the associated device.
email	String	Email address.
englishName	String	English name.
function	UserFunctionDTO object	User function flag.
hidePhone	Boolean	Whether to hide the mobile number.
id	String	User ID.
license	Integer	License. <ul style="list-style-type: none"> • 0: commercial use. • 1: free trial.

Parameter	Type	Description
name	String	Name.
phone	String	Mobile number.
signature	String	Signature.
sipNum	String	SIP number.
sortLevel	Integer	Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory.
status	Integer	User status. <ul style="list-style-type: none"> ● 0: normal. ● 1: disabled.
thirdAccount	String	Third-party user ID.
title	String	Job title.
userAccount	String	Huawei Cloud Meeting account.
userType	Integer	User type. <ul style="list-style-type: none"> 2: enterprise member.
visionAccount	String	Unique smart TV account.
vmrList	Array of UserVmrDTO objects	Cloud meeting room list.

Example Request

```
GET /v1/usg/dcs/corp/member/3e48b79b660e403cb5e0208f7be83961?accountType=0
Connection: keep-alive
X-Access-Token: stb7PzruAmA6d3JJD578jIAHczGfN4Slaup9
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 646
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 551aeb8cafbbaa7bbdc7b1c76bba8ac

{
  "activeTime": 1601221696783,
  "adminType": 2,
  "corp": null,
  "country": "chinaPR",
  "deptCode": "1",
```

```
"deptName": "Root Department",
"deptNamePath": "Root Department",
"desc": "modDesc",
"devType": {
  "deviceSize": null,
  "model": null,
  "purchaseChannel": null
},
"email": "*****",
"englishName": "modEnglishName",
"function": {
  "enableRoom": true
},
"hidePhone": true,
"id": "f521bebcbb27422cb3241c4cb19942c5",
"license": 0,
"name": "modName",
"phone": "+86173****9807",
"signature": "modSignature",
"sipNum": "+8657198480",
"sortLevel": 1,
"status": 1,
"thirdAccount": "thirdAccount",
"title": "modTitle",
"userAccount": "3e48b79b660e403cb5e0208f7be83961",
"userType": 2,
"visionAccount": null,
"vmrList": [
  {
    "id": "2c908bc76f61a5f2016f61bbfdf5039b",
    "status": "0",
    "vmrId": "912992631",
    "vmrName": "name's cloud meeting room",
    "vmrPkgId": null,
    "vmrPkgLength": null,
    "vmrPkgName": null,
    "vmrPkgParties": null
  }
]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stb7PzruAmA6d3JJD578jLAHczGfN4Slaup9' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/member/3e48b79b660e403cb5e0208f7be83961?accountType=0
```

9.2.4 Querying User Details in Batches

Description

This API is used to query details about users or third-party accounts in a batch.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-15 Prototype

Request Method	POST
Request Address	/v1/usg/abs/users/list
Transport Protocol	HTTPS

Request Parameters

Table 9-16 Parameters

Parameter	Mandatory	Type	Location	Description
idType	Yes	String	Query	Query type. The default value is USER_ID . <ul style="list-style-type: none"> USER_ID: Query user details using Huawei Cloud Meeting user IDs. THIRD_ACCOUNT: Query user details using third-party accounts.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	No	Array of ShowUserRequestDTO objects	Body	List of user IDs or third-party accounts. minLength: 1 maxLength: 200

Table 9-17 ShowUserRequestDTO data structure

Parameter	Mandatory	Type	Location	Description
id	No	String	Body	User ID or third-party account.

Status Codes

Table 9-18 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 9-19 Response Parameters

Parameter	Type	Description
[Array element]	Array of UserDTO objects	User information list.

Table 9-20 UserDTO data structure

Parameter	Type	Description
id	String	User ID.
statusCode	Integer	When user details are queried, the response varies depending on the scenario. <ul style="list-style-type: none"> ● 0: If the query is successful and the user information has changed, the new user information is returned in the response. ● 1: If the query is successful and the user information has not changed, only the user ID is returned in the response. ● 2: The user does not exist. ● 3: No permissions to query the user.
account	String	User account.
name	String	Username.
englishName	String	English name of the user.
email	String	Email address.
phone	String	Mobile number.
deptName	String	Department that the user belongs to.
number	String	SIP number of the user.
updateTime	Long	Time when the user information was last updated.
isHardTerminal	Boolean	Whether the account is a hard terminal account. NOTE This parameter will be discarded. Do not use it.
vmrId	String	Personal meeting ID of the user.
signature	String	User signature.
title	String	Job title.
description	String	Description.
hidePhone	Boolean	Whether to hide the user's mobile number. If the value is true , the mobile number of the user is not returned when other users query the user.

Parameter	Type	Description
type	String	User type. <ul style="list-style-type: none"> ● NORMAL_USER: common user. ● HARD_TERMINAL: hard terminal user. ● WHITE_BOARD: third-party whiteboard. ● HW_VISION_MEMBER: smart TV. ● IDEA_HUB_MEMBER: IdeaHub user.
deptCodes	Array of strings	Department code list.

Example Request

```
POST https://{endpoint}/v1/usg/abs/users/list?idType=USER_ID
Connection: keep-alive
X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

[
  {
    "id": "ff8080816993bac00169bdf14e0800ad"
  },
  {
    "id": "718b8be14f09432caf66f3076505207b"
  }
]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 646
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 551aeb8cafbbaa7bbdc7b1c76bba8ac

[
  {
    "account": "Zhangsan@example.com",
    "name": "Zhang San",
    "englishName": "Sam",
    "email": "*****",
    "phone": "177****0476",
    "deptName": "cloudcore",
    "number": "+99111283523475338",
    "updateTime": 1554268817303,
    "isHardTerminal": false,
    "vmId": "912992631",
    "signature": "Tom's signature",
    "title": "Project Manager",
    "description": "Remarks",
    "type": "NORMAL_USER",
    "deptCodes": [
      "1"
    ]
  }
]
```



```
]
  }
]
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stb7PzruAmA6d3JJD578jLAHczGfN4Slaup9' -d '[{"id": "ff8080816993bac00169bdf14e0800ad"}, {"id": "718b8be14f09432caf66f3076505207b"}]' https://api.meeting.huaweicloud.com/v1/usg/abs/users/list?idType=USER_ID
```

9.2.5 Deleting Users in Batches

Description

This API is used by an enterprise administrator to delete enterprise users in batches. All the users will be deleted or all of them will fail to be deleted.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-21 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/member/delete
Transport Protocol	HTTPS

Request Parameters

Table 9-22 Parameters

Parameter	Mandatory	Type	Location	Description
accountType	No	Integer	Query	Account type. <ul style="list-style-type: none"> • 0: Huawei Cloud Meeting account, which is used for account and password authentication. • 1: third-party user ID, which is used for app ID authentication. • Default value: 0.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	User account list.

Status Codes

Table 9-23 Status codes

HTTP Status Code	Description
200	Operation successful.

HTTP Status Code	Description
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/member/delete?accountType=0
Connection: keep-alive
X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9
Content-Type: application/json
Content-Length: 11
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

["test963"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 551aeb8cafbbaa7bbbd7b1c76bba8ac
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9' -d '["test963"]' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/member/delete?accountType=0
```

9.2.6 Querying Users in Pages

Description

This API is used by an enterprise administrator to query enterprise users in pages.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-24 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/member
Transport Protocol	HTTPS

Request Parameters

Table 9-25 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned.
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by name, mobile number, email address, account, and third-party user ID is supported.
sortField	No	String	Query	Sort field. Options: <ul style="list-style-type: none"> • userType • adminType • ldapAccount • deptCode • status • sortLevel

Parameter	Mandatory	Type	Location	Description
isAsc	No	Boolean	Query	Whether to sort records in ascending order.
deptCode	No	String	Query	Department code. If this parameter is not specified, all departments are queried.
enableSubDept	No	Boolean	Query	Whether to query sub-departments. Default value: true .
adminType	No	Integer	Query	Query by administrator type. <ul style="list-style-type: none"> • 1: common administrator. • 2: non-administrator.
enableRoom	No	Boolean	Query	Whether to query SmartRooms users. NOTE This parameter will be discarded. Do not use it.
userType	No	Array of integers	Query	User type. If the request does not contain this parameter, common users are queried by default. <ul style="list-style-type: none"> • 2: common user. • 12: smart TV user. • 13 IdeaHub user. • 14: SmartRooms user.
status	No	Integer	Query	User status. If this parameter is not specified, all records are queried. <ul style="list-style-type: none"> • 0: normal. • 1: disabled.
containsInactive	No	Boolean	Query	Whether to query inactive terminals. Default value: false . NOTE This parameter will be discarded. Do not use it.

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 9-26 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 9-27 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .

Parameter	Type	Description
offset	Integer	Number of the query start page. The value starts from 0.
data	Array of SearchUserResultDTO objects	Enterprise user details.

Table 9-28 SearchUserResultDTO data structure

Parameter	Type	Description
activeCode	String	Activation code.
activeCodeExpirationTime	Long	Expiration time of the activation code, which is a UTC timestamp.
activeTime	Long	Activation time (UTC timestamp).
adminType	Integer	Administrator type. <ul style="list-style-type: none"> 0: default (super) administrator. 1: common administrator. 2: common enterprise member (This value is valid only when UserType is set to 2.)
country	String	Country or region that the mobile number belongs to.
deptCode	String	Department code.
deptNamePath	String	Department name path.
desc	String	Remarks.
email	String	Email address.
englishName	String	English name.
expireTime	Long	Expiration time of an activated terminal, which is a UTC timestamp.
hidePhone	Boolean	Whether to hide the mobile number.
id	String	User UUID.
license	Integer	License. <ul style="list-style-type: none"> 0: commercial use. 1: free trial.
name	String	Name.
phone	String	Mobile number.

Parameter	Type	Description
signature	String	Signature.
sortLevel	Integer	Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory. maximum: 10000 minimum: 1
status	Integer	User status. <ul style="list-style-type: none"> • 0: normal. • 1: disabled.
thirdAccount	String	Third-party user ID.
title	String	Job title.
userAccount	String	Huawei Cloud Meeting account.
userType	Integer	User type. <ul style="list-style-type: none"> • 2: common user. • 12: smart TV user. • 13: IdeaHub user. • 14: SmartRooms user.
visionAccount	String	Smart TV account.
vmrId	String	Personal cloud meeting room ID.

Example Request

```
GET /v1/usg/dcs/corp/member
Connection: keep-alive
X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9
Content-Type: application/json
Content-Length: 125
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 63facce44898efa03629afd189da7f0f

{
  "count": 1,
  "data": [
    {
```



```
"activeCode": null,
"activeCodeExpireTime": null,
"activeTime": 1601221696783,
"adminType": 2,
"country": "chinaPR",
"deptCode": "1",
"deptNamePath": "Root Department",
"desc": "desc",
"email": "*****",
"englishName": "englishName",
"expireTime": null,
"hidePhone": false,
"id": "a7f78791553d4ec6b3a4b721f0946286",
"license": 0,
"name": "name",
"phone": "+86123456789",
"signature": "signature",
"sortLevel": 10000,
"status": 0,
"thirdAccount": "thirdAccount",
"title": "manager",
"userAccount": "4036ca5e54d144d9b9e3ed25b9368d3a",
"userType": 2,
"visionAccount": null,
"vmrId": "911150978"
}
],
"limit": 10,
"offset": 0
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stb7PzruAmA6d3JJD578jLAHczGfN4Slaup9' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/member
```

9.2.7 Modifying the User Status in Batches

Description

This API is used by an enterprise administrator to modify user status in batches. When some user account resources or whiteboard (SmartRooms) resources expire and the number of user accounts or whiteboard access accounts in the enterprise exceeds the upper limit, the system will automatically disable the accounts at random. In this case, the enterprise administrator can use this API to modify the user status.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-29 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/corp/member/status/{value}
Transport Protocol	HTTPS

Request Parameters

Table 9-30 Parameters

Parameter	Mandatory	Type	Location	Description
value	Yes	Integer	Path	New user status. <ul style="list-style-type: none"> 0: normal. 1: disabled.
accountType	No	Integer	Query	Account type. Default value: 0. <ul style="list-style-type: none"> 0: Huawei Cloud Meeting account, which is used for account and password authentication. 1: third-party user ID, which is used for app ID authentication.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	User account list.

Status Codes

Table 9-31 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/corp/member/status/0?accountType=0
Connection: keep-alive
X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9
Content-Type: application/json
Content-Length: 11
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

["test010"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 0ecdde61a9c0aedc6c17ed7add46033c
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9' -d '["test010"]' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/member/status/0?accountType=0
```

9.2.8 Querying Personal Details as a User

Description

This API is used by an enterprise user to query personal details.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-32 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/member
Transport Protocol	HTTPS

Request Parameters

Table 9-33 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 9-34 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 9-35 Response parameters

Parameter	Type	Description
activeTime	Long	Activation time (UTC timestamp).
adminType	Integer	Administrator type. <ul style="list-style-type: none"> • 0: default (super) administrator. • 1: common administrator. • 2: common enterprise member (This value is valid only when UserType is set to 2.)

Parameter	Type	Description
corp	CorpBasicInfoDTO object	Enterprise registration details, which are returned only when users query the personal details of themselves.
country	String	Country or region that the mobile number of the user belongs to.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
desc	String	Remarks.
devType	QueryDeviceInfoResultDTO object	Type of the associated device.
email	String	Email address.
englishName	String	English name.
function	UserFunctionDTO object	User function flag.
hidePhone	Boolean	Whether to hide the mobile number.
id	String	User ID.
license	Integer	License. <ul style="list-style-type: none">● 0: commercial use.● 1: free trial.
name	String	Name.
phone	String	Mobile number.
signature	String	Signature.
sipNum	String	SIP number.
sortLevel	Integer	Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory.
status	Integer	User status. <ul style="list-style-type: none">● 0: normal.● 1: disabled.
thirdAccount	String	Third-party user ID.
title	String	Job title.
userAccount	String	Huawei Cloud Meeting account.

Parameter	Type	Description
userType	Integer	User type. 2: enterprise member.
visionAccount	String	Unique smart TV account.
vmrList	Array of UserVmrDTO objects	Cloud meeting room list.

Table 9-36 UserVmrDTO data structure

Parameter	Type	Description
id	String	Cloud meeting room ID. NOTE It matches vmrID in the API for creating a meeting .
vmrId	String	Fixed meeting ID of the cloud meeting room. NOTE It matches vmrConferenceID in the response of calling the API for creating a meeting .
vmrName	String	Cloud meeting room name.
vmrMode	Integer	Cloud meeting room mode. <ul style="list-style-type: none"> 0: personal meeting ID. 1: cloud meeting room. 2: webinar.
vmrPkgId	String	ID of the cloud meeting room package. This parameter is returned only for cloud meeting rooms.
vmrPkgLength	Integer	Meeting duration of the cloud meeting room package. If the value is 0, the meeting duration is unlimited. This parameter is returned only for cloud meeting rooms.
vmrPkgName	String	Name of the cloud meeting room package. This parameter is returned only for cloud meeting rooms.
vmrPkgParties	Integer	Number of concurrent participants in the cloud meeting room package. This parameter is returned only for cloud meeting rooms.

Parameter	Type	Description
status	Integer	Cloud meeting room status. <ul style="list-style-type: none"> • 0: normal. • 1: disabled. • 2: unallocated.

Table 9-37 CorpBasicInfoDTO data structure

Parameter	Type	Description
account	String	Administrator account.
address	String	Enterprise address.
adminName	String	Administrator name.
autoUserCreate	Boolean	Whether automatic user registration is enabled.
country	String	Country or region that the administrator's mobile number belongs to.
email	String	Administrator's email address.
enablePstn	Boolean	Whether PSTN is enabled.
enableSMS	Boolean	Whether to send meeting notifications by SMS message.
id	String	Enterprise ID.
name	String	Enterprise name.
phone	String	Administrator's mobile number.
enableCloudDisk	Boolean	Whether Clouddrive is enabled.
corpType	Integer	Enterprise type.

Example Request

```
GET /v1/usg/dcs/member
Connection: keep-alive
X-Access-Token: stbLRonxHFt7jfbMHSY2UufNZewbPwb8TP8y
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
```



```
Content-Length: 812
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: c94f64967745b0670c299c0688479078
Server: api-gateway
X-Request-Id: de796b739528b6a1f72c283a107bdb02

{
  "id": "ff808081699b56cb0169b81a06ee00d9",
  "userAccount": "user8001@corpnew",
  "name": "test008",
  "englishName": null,
  "phone": null,
  "country": null,
  "email": "*****",
  "sipNum": "+991116003840",
  "vmrList": [
    {
      "id": "ff808081699b56cb0169b81a06f400db",
      "vmrId": "913371462",
      "vmrName": "user8001's cloud meeting room",
      "vmrMode": 0,
      "vmrPkgId": null,
      "vmrPkgName": null,
      "vmrPkgParties": null,
      "vmrPkgLength": null,
      "status": 0
    },
    {
      "id": "ff808081699b56cb0169b92b45ab0111",
      "vmrId": "919728047",
      "vmrName": "Cloud meeting room 919728047",
      "vmrMode": 1,
      "vmrPkgId": "ff808081680d5b8601682b3436070030",
      "vmrName": "Dedicated operations cloud meeting room_25",
      "vmrPkgParties": 25,
      "vmrPkgLength": 0,
      "status": 0
    }
  ],
  "deptCode": "1",
  "deptName": "wangyue",
  "deptNamePath": "wangyue",
  "userType": 2,
  "adminType": 2,
  "signature": null,
  "title": null,
  "desc": null,
  "corp": {
    "id": "15659",
    "name": "Huawei Technologies Co., Ltd.",
    "address": "hangzhou",
    "adminName": "wlj",
    "account": "d74cf0a5c7804860a131ec6067a10fc6",
    "phone": "+86*****",
    "country": "chinaPR",
    "email": "*****@huawei.com",
    "enableSMS": true,
    "enablePstn": false,
    "autoUserCreate": true
  },
  "function": {
    "enableRoom": false
  },
  "status": 0,
  "sortLevel": 10000,
  "hidePhone": false
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbLRonxHFt7jfbMHSY2UufNZewbPwb8TP8y' https://api.meeting.huaweicloud.com/v1/usg/dcs/member
```

9.2.9 Modifying Personal Details as a User

Description

This API is used by an enterprise user to modify personal details.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-38 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/member
Transport Protocol	HTTPS

Request Parameters

Table 9-39 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandator y	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
desc	No	String	Body	Remarks. maxLength : 128 minLength : 0
englishName	No	String	Body	English name. maxLength : 64 minLength : 0
name	Yes	String	Body	Name. maxLength : 64 minLength : 1
signature	No	String	Body	Signature. maxLength : 512 minLength : 0
title	No	String	Body	Job title. maxLength : 32 minLength : 0

Status Codes

Table 9-40 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.

HTTP Status Code	Description
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/member
Connection: keep-alive
X-Access-Token: stbLRonxHFt7jfbMHSY2UufNZewbPwb8TP8y
Content-Type: application/json
Content-Length: 25
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "name": "user8001"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: f2a77ad15ad968bd72bdcd00fa1acef3
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stbLRonxHFt7jfbMHSY2UufNZewbPwb8TP8y' -d '{"name": "user8001"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/member
```

9.2.10 Changing the Mobile Number or Email Address

9.2.10.1 Scenarios

An enterprise member can change the mobile number or email address bound to their accounts in four steps:

1. Obtain the verification code sent to the current mobile number or email address.

2. Verify the verification code corresponding to the current mobile number and email address.
3. Obtain the verification code sent to a new mobile number or email address.
4. Change the mobile number or email address.

9.2.10.2 Obtaining a Verification Code

Description

This API is used by an enterprise user to obtain a verification code for changing the mobile number or email address. After this API is called, the system sends the verification code to the user's mobile number or email address. The verification code is valid within one minute.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-41 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/member/verification-code
Transport Protocol	HTTPS

Request Parameters

Table 9-42 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
contact	Yes	String	Body	Mobile number or email address of the user. The backend automatically identifies whether it is a mobile number or an email address. If the value is a mobile number, the mobile number must contain the country or region code. For example, a mobile number in Chinese mainland is +86xxxxxxxxxxxxxxxx . This parameter is combined with the country parameter. maxLength: 255 minLength: 1
country	No	String	Body	Country or region that the mobile number belongs to. Default value: chinaPR . The value can contain up to 255 characters.
verificationCode	No	String	Body	Verification code, which must be carried in the verification scenario.

Status Codes

Table 9-43 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/member/verification-code
Connection: keep-alive
X-Access-Token: stbmRCbnRpo5lV9SiOMVogwnm5ilccjYho
Content-Type: application/json
Content-Length: 35
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "contact": "+86136*****",
  "country": "chinaPR"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 8b080717d1868035cfa16b10a92bea95
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbmRCbnRpo5lV9SiOMVogwnm5ilccjYho' -d '{"contact": "+86136*****","country": "chinaPR"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/member/verification-code
```

9.2.10.3 Verifying a Verification Code

Description

This API is used to verify a verification code sent to a mobile number and email address. Up to five verification attempts per minute are allowed.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-44 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/member/verification-code/verify
Transport Protocol	HTTPS

Request Parameters

Table 9-45 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Parameter	Mandatory	Type	Location	Description
contact	Yes	String	Body	<p>Mobile number or email address of the user. The backend automatically identifies whether it is a mobile number or an email address.</p> <p>If the value is a mobile number, the mobile number must contain the country or region code. For example, a mobile number in Chinese mainland is +86xxxxxxxxxxxxxxx. This parameter is combined with the country parameter.</p> <p>maxLength: 255 minLength: 1</p>
country	No	String	Body	<p>Country or region that the mobile number belongs to.</p> <p>Default value: chinaPR.</p> <p>The value can contain up to 255 characters.</p>
verificationCode	No	String	Body	<p>Verification code, which must be carried in the verification scenario.</p>

Status Codes

Table 9-46 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/member/verification-code/verify
Connection: keep-alive
X-Access-Token: stb3te1tKXh5mDfICbiSOP0GOoqwkWEDgfb9
Content-Type: application/json
Content-Length: 68
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "contact": "+86136*****",
  "country": "chinaPR",
  "verificationCode": "753927"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: eed03de09b96dec5643adbbb55acf674
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stb3te1tKXh5mDfICbiSOP0GOoqwkWEDgfb9' -d '{"contact": "+86136*****", "country": "chinaPR", "verificationCode": "753927"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/member/verification-code/verify
```

9.2.10.4 Changing the Mobile Number or Email Address

Description

This API is used to change the mobile number or email address. You must obtain the verification code first. If the verification fails for multiple times, the mobile number or email address cannot be changed.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-47 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/member/contact
Transport Protocol	HTTPS

Request Parameters

Table 9-48 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Parameter	Mandatory	Type	Location	Description
contact	Yes	String	Body	<p>Mobile number or email address of the user. The backend automatically identifies whether it is a mobile number or an email address.</p> <p>If the value is a mobile number, the mobile number must contain the country or region code. For example, a mobile number in Chinese mainland is +86xxxxxxxxxxxxxx. This parameter is combined with the country parameter.</p> <p>maxLength: 255 minLength: 1</p>
country	No	String	Body	<p>Country or region that the mobile number belongs to.</p> <p>Default value: chinaPR.</p> <p>The value can contain up to 255 characters.</p>
verificationCode	No	String	Body	<p>Verification code, which must be carried in the verification scenario.</p>

Status Codes

Table 9-49 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.

HTTP Status Code	Description
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/member/contact
Connection: keep-alive
X-Access-Token: stb3te1tKXh5mDfICbiSOP0GOoqwkWEDgfb9
Content-Type: application/json
Content-Length: 68
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "contact": "+86136*****",
  "country": "chinaPR",
  "verificationCode": "226607"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: efd3e53b2d9fa554d11267d5d66ca0bf
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stb3te1tKXh5mDfICbiSOP0GOoqwkWEDgfb9' -d '{"contact": "+86136*****", "country": "chinaPR", "verificationCode": "685348"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/member/contact
```

9.2.11 Inviting a User

Description

This API is used to invite a user to join an enterprise using the mobile number or email address.

- If the invited user does not exist in the Huawei Cloud Meeting system:

- The user needs to register with Huawei Cloud Meeting to join the enterprise that uses the free or Huawei Cloud Flexus edition.
- The user is directly added to the enterprise that uses the premium edition. The user receives the initial password of the Huawei Cloud Meeting account and needs to change the password when logging in to Huawei Cloud Meeting using the mobile number or email address.
- If the invited user exists in the Huawei Cloud Meeting system, the user will receive an SMS message or email for confirmation. After accepting the invitation, the user is added to the enterprise. The password of the user account remains unchanged.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 9-50 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/member/add
Transport Protocol	HTTPS

Request Parameters

Table 9-51 Parameters

Parameter	Mandator y	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
contact	Yes	String	Body	<p>The background automatically identifies whether the mobile number or email address is used. If the mobile number is used, the mobile number must match the country/region code.</p> <p>NOTE</p> <ul style="list-style-type: none"> Enterprises at the Chinese mainland site can invite users by specifying email addresses or mobile numbers of the users. Only mobile numbers starting with +86 are supported. Enterprises at the International site can invite users only by specifying email addresses of the users.
country	No	String	Body	<p>Country or region that the mobile number belongs to.</p> <p>Default value: chinaPR. maxLength: 255 minLength: 0</p>
deptCode	No	String	Body	Department code. If this parameter is not carried, the root department is used by default.
desc	No	String	Body	Remarks. maxLength : 128 minLength : 0
name	Yes	String	Body	Name of the enterprise user.

Parameter	Mandatory	Type	Location	Description
sortLevel	No	Integer	Body	Sequence number in the corporate directory. A smaller value indicates a higher position in the corporate directory.
title	No	String	Body	Job title.

Status Codes

Table 9-52 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 9-53 Response Parameters

Parameter	Type	Description
userExist	Boolean	Whether the user exists.

Example Request

```
POST /v1/usg/dcs/corp/member/add
Connection: keep-alive
Content-Type: application/json
X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slap9
Content-Length: 173
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "contact": "+8617379679094",
  "country": "chinaPR",
  "name": "Tom"
}
```


Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Expires: Thu, 01 Jan 1970 00:00:00 GMT
Server: api-gateway
X-Request-Id: ebbb9b1e50d1ec63b78d8484d170173f

{
  "userExist": false
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stb7PzruAmA6d3JJD578jlAHczGfN4Slaup9' -d '{"contact": "+8617379679094","country": "chinaPR","name": "Tom"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/member
```

10 Enterprise Administrator Management

10.1 Examples

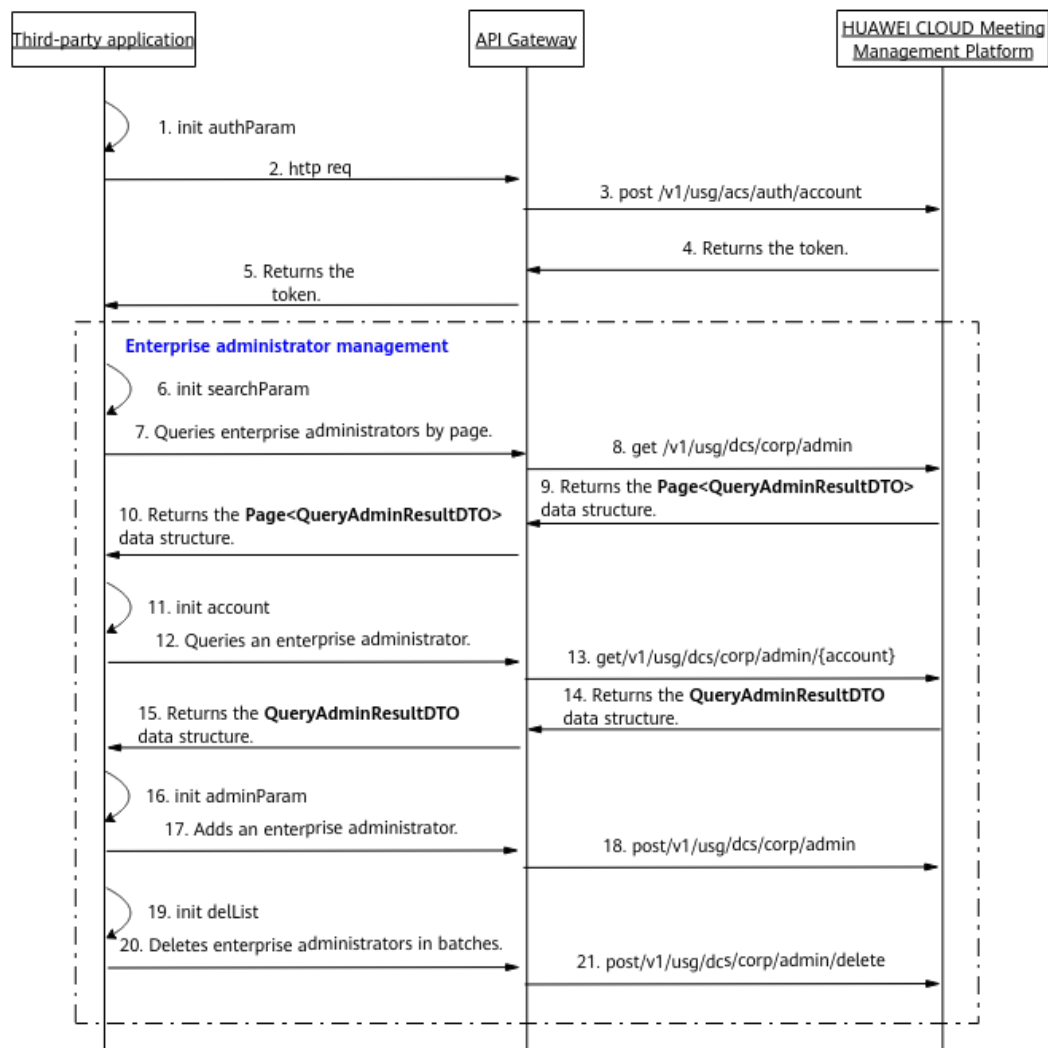
10.1.1 Managing Enterprise Administrators

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using an enterprise administrator account and password on a third-party application, you can query, add, and delete enterprise administrators.

Service Process

Figure 10-1 Process of managing enterprise administrators



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise administrator account and password to obtain a token.
2. The third-party application sends an authentication request to API Gateway.
3. After receiving the request, API Gateway sends an account authentication request to Huawei Cloud Meeting Management Platform.
4. Huawei Cloud Meeting Management Platform returns a token after successful authentication.
5. API Gateway returns the token information to the third-party application.
6. To query enterprise administrators by page, set parameters such as the query offset and search criteria.
7. The third-party application sends a request carrying these parameters to API Gateway to query enterprise administrators by page.
8. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query enterprise administrators.

9. Huawei Cloud Meeting Management Platform returns the enterprise administrator list to API Gateway.
10. API Gateway sends the enterprise administrator list to the third-party application.
11. To query a single enterprise administrator, set the enterprise user account.
12. The third-party application sends a request carrying the user account parameter to API Gateway to query the enterprise administrator.
13. API Gateway sends a request to Huawei Cloud Meeting Management Platform to query the enterprise administrator details.
14. Huawei Cloud Meeting Management Platform returns the enterprise administrator details to API Gateway.
15. API Gateway returns the enterprise administrator details to the third-party application.
16. To add an enterprise administrator, set the enterprise user account.
17. The third-party application sends a request to API Gateway to add an enterprise administrator.
18. API Gateway sends a request to Huawei Cloud Meeting Management Platform to add the enterprise administrator. Huawei Cloud Meeting Management Platform adds the enterprise administrator.
19. To delete enterprise administrators in batches, set the user account list.
20. The third-party application sends a request to API Gateway to delete enterprise administrators in batches.
21. API Gateway sends a request to Huawei Cloud Meeting Management Platform to delete the enterprise administrators in batches. After receiving the request, Huawei Cloud Meeting Management Platform deletes the enterprise administrators in batches.
22. Steps 6 to 21 in the preceding figure are APIs for managing enterprise administrators. You can call these APIs in any sequence.

10.2 APIs

10.2.1 Adding an Enterprise Administrator

Description

This API is used by the default enterprise administrator to add a common enterprise administrator.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 10-1 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/admin
Transport Protocol	HTTPS

Request Parameters

Table 10-2 Parameters

Parameter	Mandatory	Type	Location	Description
accountType	No	Integer	Query	Account type. <ul style="list-style-type: none"> • 0: Huawei Cloud Meeting account, which is used for account and password authentication. • 1: third-party user ID, which is used for app ID authentication. • Default value: 0.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
account	Yes	String	Body	Enterprise user account. <ul style="list-style-type: none"> If the account and password authentication mode is used, the value is a Huawei Cloud Meeting account. If the app ID authentication mode is used, the value is a third-party user ID.

Status Codes

Table 10-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/admin?accountType=0
Connection: keep-alive
X-Access-Token: stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U
content-type: application/json
Content-Length: 28
Host: api.meeting.huaweicloud.com
```

```
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191))
{
  "account": "test006"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: efd3e53b2d9fa554d11267d5d66ca0bf
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:
stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U' -d '{"account": "test006"}' https://
api.meeting.huaweicloud.com/v1/usg/dcs/corp/admin?accountType=0
```

10.2.2 Querying an Enterprise Administrator

Description

This API is used to query an enterprise administrator.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 10-4 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/admin/{account}
Transport Protocol	HTTPS

Request Parameters

Table 10-5 Parameters

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Path	Enterprise user account. <ul style="list-style-type: none"> If the account and password authentication mode is used, the value is a Huawei Cloud Meeting account. If the app ID authentication mode is used, the value is a third-party user ID.
accountType	No	Integer	Query	Account type. Default value: 0 . <ul style="list-style-type: none"> 0: Huawei Cloud Meeting account, which is used for account and password authentication. 1: third-party user ID, which is used for app ID authentication.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 10-6 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 10-7 Response parameters

Parameter	Type	Description
account	String	User account.
adminType	Integer	Administrator type. <ul style="list-style-type: none"> • 0: default administrator. • 1: common administrator.
country	String	Country or region that the mobile number belongs to.
dept	DeptBasicDTO object	Basic department information. The department information must be displayed when an enterprise administrator is queried.
email	String	Email address.
id	String	User ID.
name	String	Administrator's name.
phone	String	Mobile number.

Table 10-8 DeptBasicDTO parameters

Parameter	Type	Description
corpId	String	Enterprise ID.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
parentDeptCode	String	Parent department code.

Example Request

```
GET /v1/usg/dcs/corp/admin/test006?accountType=0
Connection: keep-alive
X-Access-Token: stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: efd3e53b2d9fa554d11267d5d66ca0bf

{
  "id": "ff8080816a024f05016a4e1c2c570a5d",
  "account": "test006",
  "name": "test006",
  "adminType": 1,
  "email": "*****",
  "phone": null,
  "country": null,
  "dept": {
    "deptCode": "1",
    "corpId": "15659",
    "deptName": "wangyue",
    "deptNamePath": "wangyue",
    "parentDeptCode": null
  }
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/admin/test006?accountType=0
```

10.2.3 Deleting Enterprise Administrators in Batches

Description

This API is used to delete enterprise administrators in batches.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 10-9 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/admin/delete
Transport Protocol	HTTPS

Request Parameters

Table 10-10 Parameters

Parameter	Mandatory	Type	Location	Description
accountType	No	Integer	Query	Account type. Default value: 0 . <ul style="list-style-type: none">0: Huawei Cloud Meeting account, which is used for account and password authentication.1: third-party user ID, which is used for app ID authentication.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	Administrator account list. maxLength: 100 minLength: 1

Status Codes

Table 10-11 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/admin/delete?accountType=0
Connection: keep-alive
X-Access-Token: stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U
content-type: application/json
Content-Length: 13
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

["test006"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: efd3e53b2d9fa554d11267d5d66ca0bf
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:
stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U' -d '{"test006"}' https://
api.meeting.huaweicloud.com/v1/usg/dcs/corp/admin/delete?accountType=0
```

10.2.4 Querying Enterprise Administrators in Pages

Description

This API is used to query enterprise administrators in pages.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 10-12 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/admin
Transport Protocol	HTTPS

Request Parameters

Table 10-13 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned.
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by name, mobile number, email address, account, and third-party account is supported.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 10-14 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 10-15 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryAdminResultDTO objects	Returned details about enterprise administrators.

Table 10-16 QueryAdminResultDTO parameters

Parameter	Type	Description
account	String	User account (Huawei Cloud Meeting account).
adminType	Integer	Administrator type. <ul style="list-style-type: none"> 0: default administrator. 1: common administrator.
country	String	Country or region that the mobile number belongs to.
dept	DeptBasicDTO object	Basic department details.

Parameter	Type	Description
email	String	Email address.
id	String	User UUID.
name	String	Administrator name.
phone	String	Mobile number.

Table 10-17 DeptBasicDTO parameters

Parameter	Type	Description
corpId	String	Enterprise ID.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
parentDeptCode	String	Parent department code.

Example Request

```
GET /v1/usg/dcs/corp/admin
Connection: keep-alive
X-Access-Token: stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U
content-type: application/json
Content-Length: 40
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: efd3e53b2d9fa554d11267d5d66ca0bf
```

```
{
  "offset": 0,
  "limit": 10,
  "count": 1,
  "data": [
    {
      "id": "ff8080816a024f05016a4e1c2c570a5d",
      "account": "test006",
      "name": "test006",
      "adminType": 1,
      "email": "*****",
      "phone": null,
      "country": null,
      "dept": null
    }
  ]
}
```



```
}  
  ]  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbH3o4N83uDQPOcFtScKC9nbqCXt3cIDB1U' https://  
api.meeting.huaweicloud.com/v1/usg/dcs/corp/admin
```

11 Hard Terminal Management

11.1 Managing Professional Meeting Terminals

11.1.1 Adding a Terminal

Description

This API is used by an enterprise administrator to add a professional meeting terminal. Professional meeting terminals include DP300, HUAWEI Bar series, HUAWEI Board, and TE series.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-1 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/device
Transport Protocol	HTTPS

Request Parameters

Table 11-2 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
country	No	String	Body	Country or region that the mobile number belongs to . Default value: chinaPR .
deptCode	No	String	Body	Department code. The default value is the root department code. Default value: 1 .
description	No	String	Body	Terminal description. maxLength : 128 minLength : 0
email	No	String	Body	Unified email address format.
model	Yes	String	Body	Device model. The value is an enumerated type. Currently, only TE series and some third-party hard terminals are supported. You can obtain the terminal models using the API in Obtaining All Terminal Models .

Parameter	Mandatory	Type	Location	Description
name	Yes	String	Body	Terminal name, which can be customized. You are advised to set this parameter to a specific location for easy identification. maxLength: 64 minLength: 1
phone	No	String	Body	Mobile number, which must contain the country code. For example, a mobile number in Chinese mainland is +86xxxxxxxxxx . This parameter is combined with the country parameter. The mobile number can contain only numbers. NOTE The mobile number or email address must be specified.
prjCodeMode	No	Integer	Body	Projection code generation mode. Default value: 0 . <ul style="list-style-type: none"> 0: automatic mode. In this mode, the code complexity is controlled based on the IP address reported in the message. For a private IP address, a simple projection code is generated. For a public IP address, a complex projection code is generated. 1: simple mode. 2: complex mode.
sendNotify	No	string	Body	Whether to send email and SMS notifications. <ul style="list-style-type: none"> 0: no. If this parameter is null or set to other values, email and SMS notifications are sent.

Parameter	Mandatory	Type	Location	Description
sn	No	String	Body	Terminal SN. The value can contain only numbers, letters, and underscores (_).
status	No	Integer	Body	Terminal status. Default value: 0. <ul style="list-style-type: none"> 0: normal. 1: frozen.

Status Codes

Table 11-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-4 Response parameters

Parameter	Type	Description
account	String	Built-in account of the hard terminal.
country	String	Country or region that the mobile number belongs to.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
description	String	Terminal description.
email	String	Email address.

Parameter	Type	Description
model	String	Device model. The value is an enumerated type. Currently, only TE series hard terminals are supported. You can obtain the terminal models using the API in Obtaining All Terminal Models .
name	String	Device name.
number	String	SIP number bound to the terminal.
phone	String	Mobile number.
prjCodeMode	Integer	Projection code generation mode. <ul style="list-style-type: none"> ● 0: automatic mode. In this mode, the code complexity is controlled based on the IP address reported in the message. For a private IP address, a simple projection code is generated. For a public IP address, a complex projection code is generated. ● 1: simple mode. ● 2: complex mode.
sn	String	Terminal SN. The value can contain only numbers, letters, and underscores (_).
status	Integer	Terminal status. <ul style="list-style-type: none"> ● 0: normal. ● 1: frozen.
type	String	Terminal type, which is used to distinguish Huawei-developed or third-party terminals.

Example Request

```
POST /v1/usg/dcs/corp/device
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPIoBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 155
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "model": "TE20",
  "name": "Hangzhou Z5-3-A29",
  "deptCode": "1",
  "phone": "+86*****",
  "email": "****@huawei.com",
  "sn": "asdasfscasd",
```

```
"country": "chinaPR"  
}
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 164  
Connection: keep-alive  
Pragma: No-cache  
Cache-Control: no-cache  
Server: api-gateway  
X-Request-Id: 65c132ec8939a66775df1382e7d35fc9  
  
{  
  "name": "Hangzhou Z5-3-A29",  
  "type": "TE",  
  "model": "TE20",  
  "sn": "asdasfscasd",  
  "account": "df8bce2178294683bb83a4985fef7165",  
  "number": "+991118029589",  
  "prjCodeMode": 0,  
  "deptCode": "1",  
  "deptName": "wangyue",  
  "deptNamePath": "wangyue",  
  "phone": "+86*****",  
  "country": "chinaPR",  
  "email": "****@huawei.com",  
  "description": null,  
  "status": 0  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbVbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOF' -d '{"model": "TE20", "name": "test20", "deptCode": "1", "phone": "+86*****", "email": "****@huawei.com", "sn": "asdasfscasd", "country": "chinaPR"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/device
```

11.1.2 Modifying a Terminal

Description

This API is used by an enterprise administrator to modify a professional meeting terminal.

NOTE

To modify an IdeaHub, SmartRooms, or smart TV, call the API for [Modifying a User](#).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-5 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/corp/device/{sn}
Transport Protocol	HTTPS

Request Parameters

Table 11-6 Parameters

Parameter	Mandatory	Type	Location	Description
sn	Yes	String	Path	Terminal SN. The value can contain only numbers, letters, and underscores (_).
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
country	No	String	Body	Country or region that the mobile number belongs to . Default value: chinaPR .

Parameter	Mandator y	Type	Location	Description
deptCode	No	String	Body	Department code. The default value is the root department code. Default value: 1.
description	No	String	Body	Terminal description. maxLength: 128 minLength: 0
email	No	String	Body	Unified email address format.
name	No	String	Body	Terminal name. You are advised to set this parameter to a specific location. maxLength: 64 minLength: 0
phone	No	String	Body	Mobile number, which must contain the country code. For example, a mobile number in Chinese mainland is +86xxxxxxxxxx . This parameter is combined with the country parameter. The mobile number can contain only numbers. NOTE The mobile number or email address must be specified.

Parameter	Mandatory	Type	Location	Description
prjCodeMode	No	Integer	Body	Projection code generation mode. <ul style="list-style-type: none"> • 0: automatic mode. In this mode, the code complexity is controlled based on the IP address reported in the message. For a private IP address, a simple projection code is generated. For a public IP address, a complex projection code is generated. • 1: simple mode. • 2: complex mode.
status	No	Integer	Body	Terminal status. <ul style="list-style-type: none"> • 0: normal. • 1: frozen.

Status Codes

Table 11-7 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/corp/device/asdasfscasd
Connection: keep-alive
```

```
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 198
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "name": "test",
  "deptCode": "1",
  "email": "*****",
  "country": "chinaPR",
  "description": "test",
  "status": 0
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 88007a3bf4d6478e530b09589582f26f
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:
stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF' -d '{"model": "TE20", "name": "test", "deptCode": "1", "email":
"*****", "country": "chinaPR", "description": "test", "status": 0}' https://
api.meeting.huaweicloud.com/v1/usg/dcs/corp/device/asdasfscasd
```

11.1.3 Querying Terminal Details

Description

This API is used by an enterprise administrator to query details about a professional meeting terminal.

NOTE

To query details about an IdeaHub, SmartRooms, or smart TV, call the API for [Querying User Details](#).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-8 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/device/{sn}
Transport Protocol	HTTPS

Request Parameters

Table 11-9 Parameters

Parameter	Mandatory	Type	Location	Description
sn	Yes	String	Path	Terminal SN. The value can contain only numbers, letters, and underscores (_).
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 11-10 Status codes

HTTP Status Code	Description
200	Operation successful.

HTTP Status Code	Description
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-11 Response parameters

Parameter	Type	Description
account	String	Built-in account of the hard terminal.
country	String	Country or region that the mobile number belongs to.
deptCode	String	Department code.
deptName	String	Department name.
deptNamePath	String	Department name path.
description	String	Terminal description.
email	String	Email address.
model	String	Device model. The value is an enumerated type. Currently, only TE series hard terminals are supported. You can obtain the terminal models using the API in Obtaining All Terminal Models .
name	String	Device name.
number	String	SIP number bound to the terminal.
phone	String	Mobile number.

Parameter	Type	Description
prjCodeMode	Integer	Projection code generation mode. <ul style="list-style-type: none"> ● 0: automatic mode. In this mode, the code complexity is controlled based on the IP address reported in the message. For a private IP address, a simple projection code is generated. For a public IP address, a complex projection code is generated. ● 1: simple mode. ● 2: complex mode.
sn	String	Terminal SN. The value can contain only numbers, letters, and underscores (_).
status	Integer	Terminal status. <ul style="list-style-type: none"> ● 0: normal. ● 1: frozen.
type	String	Terminal type, which is used to distinguish Huawei-developed or third-party terminals.

Example Request

```
GET /v1/usg/dcs/corp/device/asdasfscasd
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPIoBIR3ig8xnVScQOF
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 407
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: efa03c0b6cb71b96129744f5a1a8a736

{
  "name": "test",
  "type": "TE",
  "model": "TE20",
  "sn": "asdasfscasd",
  "account": "df8bce2178294683bb83a4985fef7165",
  "number": "+991118029589",
  "prjCodeMode": 0,
  "deptCode": "1",
  "deptName": "wangyue",
  "deptNamePath": "wangyue",
  "phone": "+86*****"
```

```

"country": "chinaPR",
"email": "*****",
"description": "test",
"status": 0
}

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -X GET -H 'X-Access-Token: stbVbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOF' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/device/asdasfscasd

```

11.1.4 Deleting Terminals in Batches

Description

This API is used by an enterprise administrator to delete professional meeting terminals in batches. A list of terminals that fail to be deleted will be returned.

NOTE

To delete IdeaHubs, SmartRooms, or smart TVs, call the API for [Deleting Users in Batches](#).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-12 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/device/delete
Transport Protocol	HTTPS

Request Parameters

Table 11-13 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	Terminal SN list. maxLength : 100 minLength : 1

Status Codes

Table 11-14 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/device/delete
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 47
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
["asdasfscasd"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: ec5243c4a685b158e66e8683942a8857
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:
stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF' -d '["asdasfscasd"]' https://
api.meeting.huaweicloud.com/v1/usg/dcs/corp/device/delete
```

11.1.5 Querying Terminals in Pages

Description

This API is used by an enterprise administrator to query professional meeting terminals by page.

NOTE

To query IdeaHubs, SmartRooms, or smart TVs by page, call the API for [Querying Users in Pages](#).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-15 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/device
Transport Protocol	HTTPS

Request Parameters

Table 11-16 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned.
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by name and SN is supported.
model	No	String	Query	Device model. The value is an enumerated type. Currently, only TE series hard terminals are supported. You can obtain the terminal models using the API in Obtaining All Terminal Models . maxLength : 128 minLength : 0
deptCode	No	String	Query	Department code. The default value is the root department code. Default value: 1 . maxLength : 32 minLength : 0

Parameter	Mandatory	Type	Location	Description
enableSubDept	No	Boolean	Query	Whether to query sub-departments. Default value: true .
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 11-17 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-18 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.

Parameter	Type	Description
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryDeviceResultDTO objects	Terminal list.

Example Request

```
GET /v1/usg/dcs/corp/device
Connection: keep-alive
X-Access-Token: stbVbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 119
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 481
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 3df9b4a1b0f8e77050d27a858add946c

{
  "offset": 0,
  "limit": 10,
  "count": 1,
  "data": [
    {
      "name": "test",
      "type": "TE",
      "model": "TE20",
      "sn": "asdasfscasd",
      "account": "df8bce2178294683bb83a4985fef7165",
      "number": "+991118029589",
      "prjCodeMode": 0,
      "deptCode": "1",
      "deptName": "wangyue",
      "deptNamePath": "wangyue",
      "phone": "+86*****",
      "country": "chinaPR",
      "email": "*****",
      "description": "test",
      "status": 0
    }
  ]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/device
```

11.1.6 Modifying the Terminal Status in Batches

Description

This API is used by an enterprise administrator to modify the professional meeting terminal status in batches. If professional meeting terminal resources expire and the number of these terminals in the enterprise exceeds the upper limit, the system disables some terminals at random. In this case, the enterprise administrator can use this API to modify the status of professional meeting terminals.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-19 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/corp/device/status/{value}
Transport Protocol	HTTPS

Request Parameters

Table 11-20 Parameters

Parameter	Mandatory	Type	Location	Description
value	Yes	Integer	Path	Terminal status. <ul style="list-style-type: none">• 0: enabled.• 1: disabled.

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	List of terminal SNs. If the terminal status corresponding to an SN is the same as that in the record, the status of the terminal is not changed. maxLength: 100 minLength: 1

Status Codes

Table 11-21 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/corp/device/status/0
Connection: keep-alive
```

```
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 47
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

["asdasfscasd"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 702639ba08cda213b2699300e7f166e8
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:
stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF' -d '["asdasfscasd"]' https://
api.meeting.huaweicloud.com/v1/usg/dcs/corp/device/status/0
```

11.1.7 Obtaining All Terminal Models

Description

This API is used by an enterprise administrator to obtain all models of professional meeting terminals.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-22 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/termdevtype
Transport Protocol	HTTPS

Request Parameters

Table 11-23 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 11-24 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-25 Response parameters

Parameter	Type	Description
[Array element]	Array of QueryDeviceTypeResultDTO	List of queried terminal types.

Table 11-26 QueryDeviceTypeResultDTO data structure

Parameter	Type	Description
enableActiveCode	Boolean	Whether activation codes are supported.
model	String	Device model. The value is an enumerated type. <ul style="list-style-type: none"> • TE10 • TE20 • TE30 • TE40 • TE50 • TE60 • HUAWEI Box 300 • HUAWEI Box 500 • HUAWEI Box 600 • HUAWEI Box 700 • HUAWEI Box 900 • DP300 • HUAWEI Box 200 • HUAWEI Box 300 • HUAWEI Box 500 • HUAWEI Board • polycom • cisco
resolution	String	Screen resolution, which can be 1080p and 720p.
supportProjectionCode	Boolean	Whether projection codes are supported.
supportSVC	Boolean	Whether SVC is supported.

Parameter	Type	Description
type	String	Terminal type, which is used to distinguish Huawei-developed or third-party terminals. <ul style="list-style-type: none">• TE: Huawei-developed hard terminal.• 3rd: third-party hard terminal.

Example Request

```
GET /v1/usg/dcs/termdevtype
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1164
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 8f0e783fe77359870eaccf323db080b5

[
  {
    "type": "TE",
    "model": "TE10",
    "enableActiveCode": true,
    "resolution": "720P",
    "supportProjectionCode": false,
    "supportSVC": null
  },
  {
    "type": "TE",
    "model": "TE20",
    "enableActiveCode": true,
    "resolution": "1080P",
    "supportProjectionCode": false,
    "supportSVC": null
  }
]
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF' https://api.meeting.huaweicloud.com/v1/usg/dcs/termdevtype
```

11.1.8 Querying the Terminal Status

Description

This API is used to query the status of a professional meeting terminal.

The professional meeting terminal and the account that initiates the query request must belong to the same enterprise. Otherwise, the authentication fails.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-27 Prototype

Request Method	POST
Request Address	/v1/usg/acs/ap/userstatus
Transport Protocol	HTTPS

Request Parameters

Table 11-28 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	Number of the terminal to query.

Status Codes

Table 11-29 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-30 Response parameters

Parameter	Type	Description
[Array element]	Array of UserStatusDTO	List of device statuses.

Table 11-31 UserStatusDTO data structure

Parameter	Type	Description
CallStatus	String	Call status. <ul style="list-style-type: none"> 0: offline. 1: idle. 2: in use. 3: invalid value for non-meeting hard terminals.
Number	String	Terminal number.
RegStatus	String	Registration status. <ul style="list-style-type: none"> 0: registered. 1: not registered.

Example Request

```
POST /v1/usg/acs/ap/userstatus
Connection: keep-alive
X-Access-Token: stbtsadx6U2jBKxODtf3Ylnff5uGZX8mzu1K
content-type: application/json
```

```
Content-Length: 40
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_131)

[
  "+99*****"
]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: a48502799c8d43519ba81502110cf213

[
  {
    "Number": "tel:+991116173924",
    "RegStatus": "0",
    "CallStatus": "1"
  }
]
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbtsadx6U2jBKxODtf3Ylnff5uGZX8mzu1K' -d '['+99*****']' https://api.meeting.huaweicloud.com/v1/usg/acs/ap/userstatus
```

11.2 Managing Activation Codes

11.2.1 Generating an Activation Code as an Enterprise Administrator

Description

This API is used by an enterprise administrator to generate an activation code for smart TVs, whiteboards (SmartRooms), and IdeaHubs.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-32 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/vision/activecode
Transport Protocol	HTTPS

Request Parameters

Table 11-33 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
country	No	String	Body	Country or region that the mobile number belongs to. Default value: chinaPR . maxLength : 255 minLength : 0

Parameter	Mandatory	Type	Location	Description
deptCode	No	String	Body	Department code. If this parameter is not carried, the root department is used by default.
description	No	String	Body	Remarks.
devName	Yes	String	Body	Terminal name.
devType	Yes	String	Body	Terminal type. <ul style="list-style-type: none"> • idea-hub: IdeaHub. • huawei-vision: smart TV. • welink-desktop(iwb): SmartRooms meeting version. • smart-rooms: SmartRooms full version.
emailAddr	No	String	Body	Email address. NOTE If no Chinese mainland mobile number is specified, the email address is mandatory.
smsNumber	No	String	Body	Number information. If the value is a mobile number, the country/region code must be specified. Only mobile numbers in the Chinese mainland are supported. For example, if a mobile number is +86xxxxxxx in the Chinese mainland, the country parameter is mandatory. The mobile number is in the format of (^\$ ^[\+]?[0-9]+\$).

Status Codes

Table 11-34 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-35 Response parameters

Parameter	Type	Description
activeCode	String	Activation code.

Example Request

```
POST /v1/usg/dcs/corp/vision/activecode
Connection: keep-alive
X-Access-Token: stbWbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOD
content-type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191))

{
  "country": "chinaPR",
  "deptCode": "1",
  "description": "Test terminal",
  "devName": "test_device",
  "devType": "idea-hub",
  "emailAddr": "*****",
  "smsNumber": "+86173****9092"
}
```

Example Response

```
HTTP/1.1 200
Date: Mon, 13 Jul 2020 02:20:32 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 5032547386ab1e2e6a24842e9e1abea9

{
  "activeCode": "085***642"
}
```


Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbWbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOD' -d '{"country": "chinaPR", "deptCode": "1", "description": "Test terminal", "devName": "test_device", "devType": "idea-hub", "emailAddr": "*****", "smsNumber": "+86173****9092"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vision/activecode
```

11.2.2 Deleting Activation Codes as an Enterprise Administrator

Description

This API is used by an enterprise administrator to delete activation codes.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-36 Prototype

Request Method	DELETE
Request Address	/v1/usg/dcs/corp/vision/activecode
Transport Protocol	HTTPS

Request Parameters

Table 11-37 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	List of unique activation code IDs.

Status Codes

Table 11-38 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
DELETE /v1/usg/dcs/corp/vision/activecode
Connection: keep-alive
X-Access-Token: stbWbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOD
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

["6d35397d67504dd1b7e1766a25f1be12"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
```

```
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 3d1aeb8cafbbaa7bbdbc7b1c76bba8as
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X DELETE -H 'X-Access-Token: stbWbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOD' -d '{"6d35397d67504dd1b7e1766a25f1be12"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vision/activecode
```

11.2.3 Resetting an Activation Code as an Enterprise Administrator

Description

This API is used by an enterprise administrator to reset an activation code. After the resetting, the original device is unbound and must be activated again. If the mobile number or email address is not specified, the new activation code will not be sent.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-39 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/corp/vision/activecode/{account}/reset
Transport Protocol	HTTPS

Request Parameters

Table 11-40 Parameters

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Path	Huawei Cloud Meeting account. Use the value of userAccount in the response to the request for Querying Users in Pages .
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
country	No	String	Body	Country or region that the mobile number belongs to. Default value: chinaPR . maxLength : 255 minLength : 0
emailAddr	No	String	Body	Email address. maxLength : 255 minLength : 0

Parameter	Mandatory	Type	Location	Description
smsNumber	No	String	Body	<p>Number information. If the value is a mobile number, the country/region code must be specified.</p> <p>For example, if a mobile number is +86xxxxxxx in the Chinese mainland, the country parameter is mandatory. The mobile number is in the format of (^\$ ^[\+]?[0-9]+\$).</p> <p>maxLength: 32 minLength: 0</p>

Status Codes

Table 11-41 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-42 Response parameter

Parameter	Type	Description
activeCode	String	Activation code.

Example Request

```
POST /v1/usg/dcs/corp/vision/activecode/test_account/reset
Connection: keep-alive
```

```
X-Access-Token: stbWbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOD
content-type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191))

{
  "country": "chinaPR",
  "emailAddr": "*****",
  "smsNumber": "+86173****9092"
}
```

Example Response

```
HTTP/1.1 200
Date: Mon, 13 Jul 2020 02:20:32 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 6032547386ab1e2e6a24842e9e1abea3

{
  "activeCode": "085****662"
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:
stbWbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOD' -d '{"country": "chinaPR", "emailAddr": "*****", "smsNumber":
"+86173****9092"}'
https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vision/activecode/test_account/reset
```

11.2.4 Querying Activation Codes by Page as an Enterprise Administrator

Description

This API is used by an enterprise administrator to query activation codes by page. Fuzzy query by activation code or terminal name is supported.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-43 Prototype

Request Method	GET
-----------------------	-----

Request Address	/v1/usg/dcs/corp/vision/activecode
Transport Protocol	HTTPS

Request Parameters

Table 11-44 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by activation code or terminal name is supported.
devType	No	String	Query	Terminal type. <ul style="list-style-type: none"> • idea-hub: IdeaHub. • huawei-vision: smart TV. • welink-desktop(iwb): SmartRooms meeting version. • smart-rooms: SmartRooms full version.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 11-45 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 11-46 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .

Parameter	Type	Description
data	Array of QueryVisionActiveCodeResultDTO objects	Activation code information.

Table 11-47 QueryVisionActiveCodeResultDTO data structure

Parameter	Type	Description
activeCode	String	Activation code.
deptCode	String	Department code.
deptName	String	Department name.
devName	String	Terminal name.
devType	String	Terminal type.
expireDate	Long	Expiration timestamp.
id	String	Unique ID of the activation code.

Example Request

```
GET /v1/usg/dcs/corp/vision/activecode
Connection: keep-alive
X-Access-Token: stbWbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOD
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 639e8b710378987ffc5eb844b5e5c291

{
  "count": 1,
  "data": [
    {
      "activeCode": "324****97",
      "deptCode": "1",
      "deptName": "Test Department",
      "devName": "test_device",
      "devType": "idea-hub",
      "expireDate": 1611250137942,
      "id": "6d35397d67504dd1b7e1766a25f1be12"
    }
  ],
  "limit": 10,
```

```
"offset": 0  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbWbWSIgzfOQ8JnbnPloBIR3ig8xnVScQOD' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vision/activecode
```

11.2.5 Resetting an Activation Code Using the SN as an Enterprise Administrator

Description

This API is used by an enterprise administrator to reset a hard terminal activation code. The new activation code can be used to activate the hard terminal. This API can be called five times for each hard terminal every 24 hours.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 11-48 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/device/{sn}/activecode
Transport Protocol	HTTPS

Request Parameters

Table 11-49 Parameters

Parameter	Mandatory	Type	Location	Description
sn	Yes	String	Path	Terminal SN. The value can contain only numbers, letters, and underscores (_).

Parameter	Mandator y	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
country	No	String	Body	Country or region that the mobile number belongs to . Default value: chinaPR .
emailAddr	No	String	Body	Email address. NOTE The mobile number or email address must be specified. If the enterprise does not enable SMS messages, the email address is mandatory.
smsNumber	No	String	Body	Mobile number. For example, a mobile number in Chinese mainland is +86xxxxxxxxxx. This parameter is combined with the country parameter. NOTE The mobile number or email address must be specified. If the enterprise does not enable SMS messages, the email address is mandatory.

Status Codes

Table 11-50 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/device/asdasfscasd/activecode
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPIoBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 94
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "smsNumber": "+86*****",
  "country": "chinaPR",
  "emailAddr": "*****"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: fbbc91569f0efed914e0427fc2a9c4ac
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbVbWSIgzfOQ8JnbmPIoBIR3ig8xnVScQOF' -d '{"smsNumber": "+86*****", "country":
```

```
"chinaPR", "emailAddr": "*****"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/device/asdasfscasd/  
activecode
```

12 Cloud Meeting Room Management

12.1 Querying Cloud Meeting Rooms by Page as an Enterprise Administrator

Description

This API is used by an enterprise administrator to query cloud meeting rooms in the enterprise by page.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 12-1 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/corp/vmr
Transport Protocol	HTTPS

Request Parameters

Table 12-2 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search based on the cloud meeting room name, cloud meeting room ID, and name of the user or hard terminal that the cloud meeting room is allocated to is supported.
status	No	Integer	Query	Cloud meeting room status. If this parameter is left empty, all records are queried. <ul style="list-style-type: none"> 0: normal. 1: disabled. 2: unallocated.
vmrMode	No	Integer	Query	Cloud meeting room mode. If this parameter is left blank, the mode is cloud meeting room by default. <ul style="list-style-type: none"> 1: cloud meeting room. 2: webinar.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 12-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 12-4 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryOrgVmrResultDTO objects	List of cloud meeting rooms.

Table 12-5 QueryOrgVmrResultDTO data structure

Parameter	Type	Description
device	IdMarkDTO object	Huawei Cloud Meeting account of the hard terminal bound to the cloud meeting room.
id	String	Cloud meeting room ID. NOTE It matches vmrID in the API for creating a meeting .

Parameter	Type	Description
member	IdMarkDTO object	Huawei Cloud Meeting account of the user bound to the cloud meeting room.
status	Integer	Cloud meeting room status. <ul style="list-style-type: none">• 0: normal.• 1: disabled.• 2: unallocated.
vmrId	String	Fixed meeting ID of the cloud meeting room. NOTE It matches vmrConferenceID in the response of calling the API for creating a meeting .
vmrName	String	Cloud meeting room name.
vmrPkgName	String	Cloud meeting room package name.
vmrPkgParties	Integer	Number of concurrent participants in the cloud meeting room package.
maxAudienceParties	Integer	Maximum number of attendees (valid only for webinars).
expireDate	Long	Expiration timestamp, in milliseconds.
commercialMaxAudienceParties	Integer	Maximum number of attendees in commercial specifications (valid only for webinars).

Table 12-6 IdMarkDTO data structure

Parameter	Type	Description
id	String	Unique ID.
mark	String	Description corresponding to the id parameter value. Generally, the value is a name.

Example Request

```
GET /v1/usg/dcs/corp/vmr?searchKey=6767&offset=0&limit=10
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 308
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: fbbc91569f0efed914e0427fc2a9c4ac

{
  "count": 1,
  "data": [
    {
      "device": {
        "id": "22c1804004374b558084c50e44e77085",
        "mark": "13456789"
      },
      "id": "ff8080816c52e2a6016c53878f030030",
      "member": {
        "id": "nhl",
        "mark": "nhl(nhl)"
      },
      "status": 0,
      "vmrId": "9*****7",
      "vmrName": "Cloud meeting room",
      "vmrPkgName": "Small cloud meeting room-10 participants",
      "vmrPkgParties": 10,
      "maxAudienceParties": 1000,
      "commercialMaxAudienceParties": 1000,
      "expireDate": 1666195200000
    }
  ],
  "limit": 10,
  "offset": 0
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -v -X GET -H "X-Access-Token:cnrYgnb27xFYyyYu4HNdmZ0zJL8WcKc3M6ir" "https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vmr?searchKey=6767&offset=0&limit=10"
```

12.2 Querying Cloud Meeting Rooms by Page and the Personal Meeting ID as a Common User

Description

This API is used by an enterprise user to query cloud meeting rooms allocated to the user and the personal meeting ID.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 12-7 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/member/vmr
Transport Protocol	HTTPS

Request Parameters

Table 12-8 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 100 .
searchKey	No	String	Query	Search criteria. Fuzzy search by cloud meeting room name or ID is supported.
specialVmr	No	Boolean	Query	Type of cloud meeting rooms to be queried. If this parameter is left empty, all types are queried. <ul style="list-style-type: none"> false: personal meeting ID. true: cloud meeting room.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 12-9 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 12-10 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryVmrResultDTO objects	List of cloud meeting rooms.

Table 12-11 QueryVmrResultDTO data structure

Parameter	Type	Description
allowGustFirst	Boolean	Whether guests are allowed to join the cloud meeting room ahead of the host.
chairJoinUrl	String	Link for the host to join the meeting.
chairPwd	String	Host password.
gustFirstNotice	Boolean	Whether to notify the cloud meeting room owner after the cloud meeting room is used.
gustJoinUrl	String	Link for guests to join the meeting.
gustPwd	String	Guest password.
id	String	Cloud meeting room ID. NOTE It matches vmrID in the API for creating a meeting .
status	Integer	Cloud meeting room status. <ul style="list-style-type: none"> • 0: normal. • 1: disabled. • 2: unallocated.
vmrMode	Integer	Cloud meeting room mode. 0: personal meeting ID. 1: cloud meeting room. 2: webinar.
vmrId	String	Fixed meeting ID of the cloud meeting room or personal meeting ID. NOTE It matches vmrConferenceID in the response of calling the API for creating a meeting .
vmrName	String	Cloud meeting room name.
vmrPkgId	String	ID of the cloud meeting room package. This parameter is returned only for cloud meeting rooms.
vmrPkgName	String	Name of the cloud meeting room package. This parameter is returned only for cloud meeting rooms.

Parameter	Type	Description
vmrPkgParties	Integer	Number of concurrent participants in the cloud meeting room package. This parameter is returned only for cloud meeting rooms.

Example Request

```
GET /v1/usg/dcs/member/vmr?specialVmr=true&offset=0&limit=10
Connection: keep-alive
X-Access-Token: stbVbWSlgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 94
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: fbbc91569f0efed914e0427fc2a9c4ac

{
  "count" : 1,
  "data" : [
    {
      "allowGustFirst" : true,
      "chairJoinUrl" : "https://bmeeting.huaweicloud.com/#/j/9*****5/4*****0",
      "chairPwd" : "*****",
      "gustFirstNotice" : false,
      "gustJoinUrl" : "https://bmeeting.huaweicloud.com/#/j/9*****5",
      "gustPwd" : null,
      "id" : "ff80808167ef1ef50167f060f574139a",
      "status" : 0,
      "vmrId" : "938305104",
      "vmrMode" : 0,
      "vmrName" : "Cloud Meeting Room 5104",
      "vmrPkgId" : "ff80808167e5f5aa0167e627ed970002",
      "vmrPkgName" : "Large Cloud Meeting Room-50 Participants",
      "vmrPkgParties" : 25
    }
  ],
  "limit" : 10,
  "offset" : 0
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -v -X GET -H "content-type:application/json" -H "X-Access-Token:cnrR5zgAjlhNeDpfa7iDr8bYmYvN0k8q4iZ" "https://api.meeting.huaweicloud.com/v1/usg/dcs/member/vmr?specialVmr=true&offset=0&limit=10"
```

12.3 Modifying Cloud Meeting Room and Personal Meeting ID Information

Description

This API is used by an enterprise user to modify information of cloud meeting rooms allocated to the user and personal meeting ID after the user logs in to the meeting service.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 12-12 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/member/vmr/{id}
Transport Protocol	HTTPS

Request Parameters

Table 12-13 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Cloud meeting room ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
allowGuestFirst	No	Boolean	Body	Whether to allow guests to join the cloud meeting room ahead of the host.
chairPwd	No	String	Body	Host password. The value contains 4 to 16 digits.
guestFirstNotice	No	Boolean	Body	Whether to notify the cloud meeting room owner after the cloud meeting room is used.
guestPwd	No	String	Body	Guest password. If this parameter is empty, no guest password is configured. The value contains 4 to 16 digits.
vmrName	No	String	Body	Cloud meeting room name. maxLength: 128 minLength: 1

Status Codes

Table 12-14 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/member/vmr/ff80808167ef1edf0167f33d650c0662
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPIoBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 94
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "vmrName": "test's cloud meeting room",
  "chairPwd": "*****",
  "gustPwd": "*****",
  "allowGustFirst": false
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: fbbc91569f0efed914e0427fc2a9c4ac
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -v -X PUT -H "content-type: application/json" -H "X-Access-Token:cnrR5zgAjyIhNeDpfa7iDr8bYmYvN0k8q4iZ" -d '{"vmrName":"test","chairPwd":"*****","gustPwd":"*****","allowGustFirst":"false"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/member/vmr/ff80808167ef1edf0167f33d650c0662
```

12.4 Deleting a Cloud Meeting Room

Description

This API is used by an enterprise administrator to delete a cloud meeting room in the enterprise.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 12-15 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/vmr/delete
Transport Protocol	HTTPS

Request Parameters

Table 12-16 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	List of cloud meeting room IDs. maxLength: 100 minLength: 1

Status Codes

Table 12-17 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.

HTTP Status Code	Description
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/vmr/delete
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbnmPIoBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 36
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

["ff8080816b9ec3ab016ba125aca20082"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: fb9c91569f0efed914e0427fc2a9c4ac
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -v -X POST -H "content-type:application/json" -H "X-Access-Token:cnrYgnb27xFYyyYu4HNdmZ0zJL8WcKc3M6ir" -d "[\"ff8080816b9ec3ab016ba125aca20082\"]" https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vmr/delete
```

12.5 Allocating a Cloud Meeting Room

Description

This API is used by an enterprise administrator to allocate cloud meeting rooms to users, professional meeting terminals (TE10, TE20, HUAWEI Board, HUAWEI Bar 500, and HUAWEI Box series), smart TVs, whiteboards (SmartRooms), and IdeaHubs.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 12-18 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/vmr/assign-to-member/{account}
Transport Protocol	HTTPS

Request Parameters

Table 12-19 Parameters

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Path	Account. <ul style="list-style-type: none"> If the account and password authentication mode is used, the value is a Huawei Cloud Meeting account. If the app ID authentication mode is used, the value is a third-party user ID. NOTE Up to 32 cloud meeting rooms can be allocated to an account.
accountType	No	Integer	Query	Account type. Default value: 0 . <ul style="list-style-type: none"> 0: Huawei Cloud Meeting account, which is used for account and password authentication. 1: third-party user ID, which is used for app ID authentication.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	List of unique cloud meeting room IDs. maxLength : 100 minLength : 1

Status Codes

Table 12-20 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/vmr/assign-to-member/example@123?accountType=0
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 36
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

["ff8080816b9ec3ab016ba125aca20082"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: fbbc91569f0efed914e0427fc2a9c4ac
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -v -X POST -H "content-type:application/json" -H "X-Access-Token:cnrYgnb27xFYyyYu4HNdmZ0zJL8WcKc3M6ir" -d "[\"ff8080816b9ec3ab016ba125aca20082\"]" https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vmr/assign-to-member/example@123?accountType=0
```

12.6 Reclaiming a Cloud Meeting Room

Description

This API is used by an enterprise administrator to reclaim a cloud meeting room.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 12-21 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/corp/vmr/recycle-from-member/{account}
Transport Protocol	HTTPS

Request Parameters

Table 12-22 Parameters

Parameter	Mandatory	Type	Location	Description
account	Yes	String	Path	Account. <ul style="list-style-type: none"> If the account and password authentication mode is used, the value is a Huawei Cloud Meeting account. If the app ID authentication mode is used, the value is a third-party user ID.
accountType	No	Integer	Query	Account type. Default value: 0 . <ul style="list-style-type: none"> 0: Huawei Cloud Meeting account, which is used for account and password authentication. 1: third-party user ID, which is used for app ID authentication.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	List of unique cloud meeting room IDs. maxLength : 100 minLength : 1

Status Codes

Table 12-23 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/corp/vmr/recycle-from-member/example@123?accountType=0
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Content-Length: 36
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
["ff8080816b9ec3ab016ba125aca20082"]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: fbbc91569f0efed914e0427fc2a9c4ac
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -v -X POST -H "content-type:application/json" -H "X-Access-Token:cnrYgnb27xFYyyYu4HNdmZ0zJL8WcKc3M6ir" -d "["ff8080816b9ec3ab016ba125aca20082\"]" https://api.meeting.huaweicloud.com/v1/usg/dcs/corp/vmr/recycle-from-member/example@123?accountType=0
```


13 User Password Management

13.1 Examples

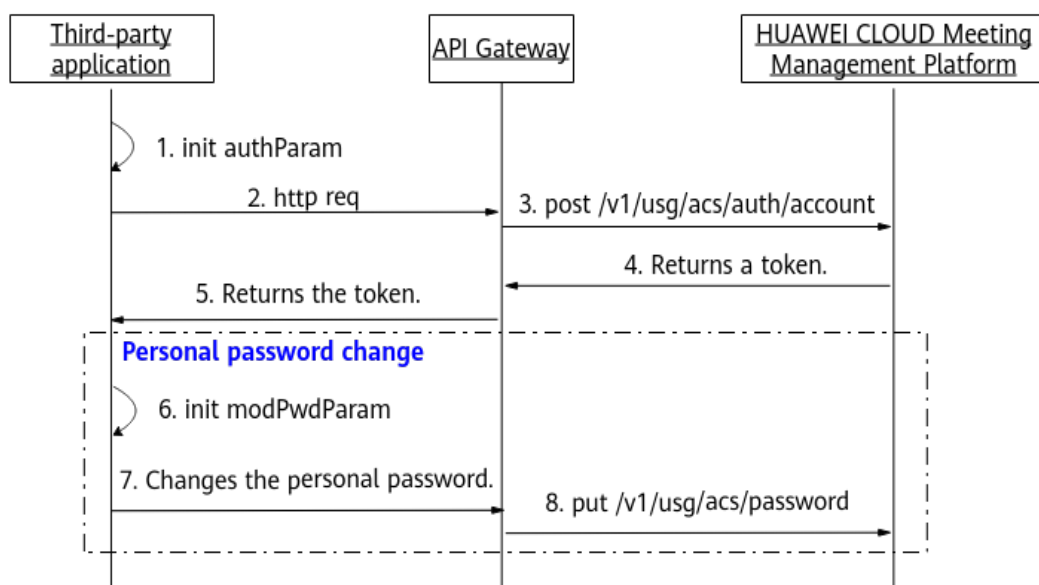
13.1.1 Example 1: Changing a Personal Password

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using an enterprise user account and password, a third-party application can change the password.

Service Process

Figure 13-1 Process of changing a personal password



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise user and password to obtain a token.
2. The third-party application sends an authentication request to API Gateway.
3. After receiving the request, API Gateway sends an account authentication request to Huawei Cloud Meeting Management Platform.
4. Huawei Cloud Meeting Management Platform returns a token after successful authentication.
5. API Gateway returns the token information to the third-party application.
6. The third-party application initializes parameters, including the user account, current password, and new password.
7. The third-party application sends a password change request carrying the initialized parameters to API Gateway.
8. API Gateway sends a request to Huawei Cloud Meeting Management Platform to change the password. Huawei Cloud Meeting Management Platform changes the password.

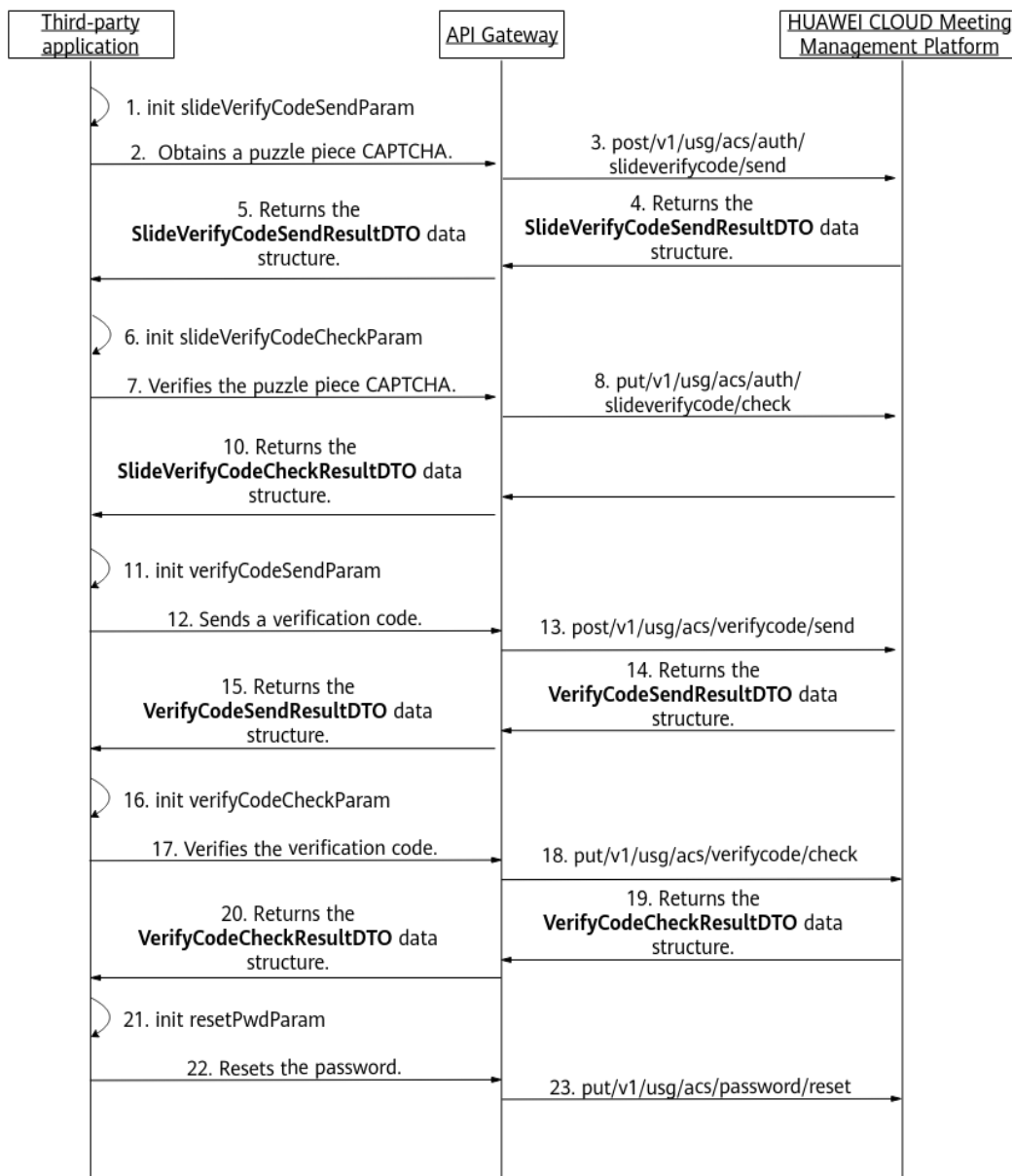
13.1.2 Example 2: Resetting a Personal Password

Scenarios

If a third-party application user forgets the login password, the user can reset the password after verification.

Service Process

Figure 13-2 Process of resetting a personal password



1. A third-party application initializes parameters such as user identity parameters, and sends a request carrying these parameters to API Gateway to obtain a puzzle piece CAPTCHA.
2. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain a puzzle piece CAPTCHA.
3. Huawei Cloud Meeting Management Platform returns the slider CAPTCHA to API Gateway.
4. API Gateway returns the puzzle piece CAPTCHA to the third-party application.
5. The third-party application fits the puzzle piece on the frontend GUI, and sets parameters such as the token and X coordinate of the puzzle piece.

6. The third-party application sends a request carrying parameters specified in step 5 to API Gateway to verify the puzzle piece CAPTCHA.
7. API Gateway sends a request to Huawei Cloud Meeting Management Platform to verify the puzzle piece CAPTCHA.
8. Huawei Cloud Meeting Management Platform returns the token information to API Gateway.
9. API Gateway returns the token information to the third-party application.
10. After the verification, the third-party application specifies parameters such as the token and user identity information, and sends a request containing the parameters to API Gateway to obtain a verification code.
11. API Gateway sends a request to Huawei Cloud Meeting Management Platform to obtain a verification code.
12. Huawei Cloud Meeting Management Platform sends a verification code and returns the verification details to API Gateway.
13. API Gateway returns the verification details to the third-party application.
14. After receiving the verification code, the third-party application specifies the user identity information and verification code parameters, and sends a request carrying the parameters to API Gateway to verify the verification code.
15. API Gateway sends a request to Huawei Cloud Meeting Management Platform to verify the verification code.
16. Huawei Cloud Meeting Management Platform verifies the verification code and returns the token information to API Gateway.
17. API Gateway returns the token information to the third-party application.
18. The third-party application specifies passwords such as the user identity information and new password, and sends a request carrying the parameters to API Gateway to reset the password.
19. API Gateway sends a password reset request to Huawei Cloud Meeting Management Platform.
20. Huawei Cloud Meeting Management Platform resets the user password.

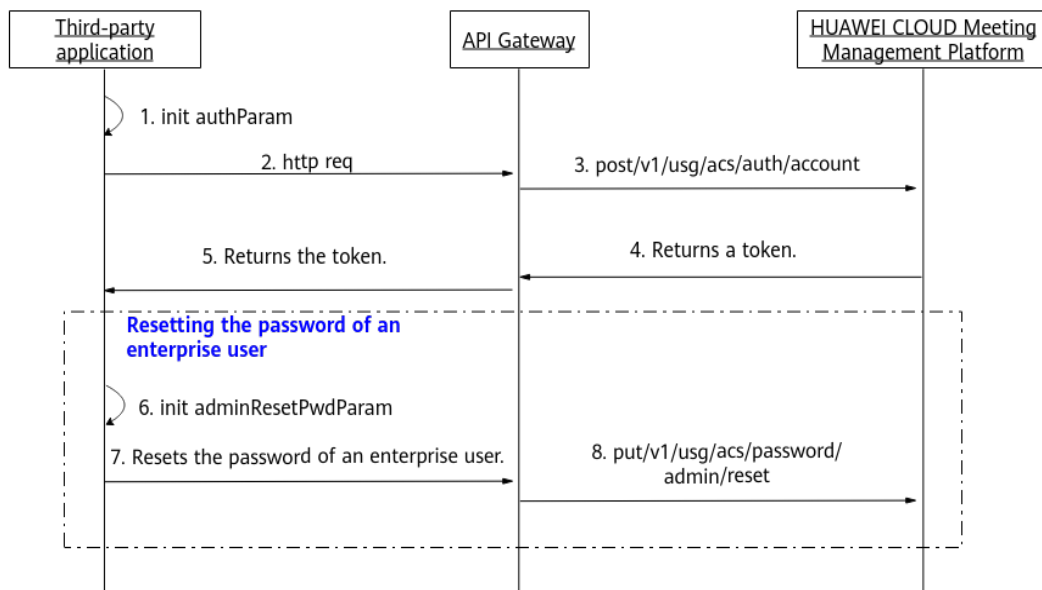
13.1.3 Example 3: Resetting the Password of an Enterprise User

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using the enterprise administrator account and password, a third-party application can reset the password of an enterprise user. The new password will be sent to the mobile number or email address of the enterprise user.

Service Process

Figure 13-3 Process of resetting the password of an enterprise user



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise user and password to obtain a token.
2. The third-party application sends an authentication request to API Gateway.
3. After receiving the request, API Gateway sends an account authentication request to Huawei Cloud Meeting Management Platform.
4. Huawei Cloud Meeting Management Platform returns a token after successful authentication.
5. API Gateway returns the token information to the third-party application.
6. The third-party application initializes parameters of an enterprise user account.
7. The third-party application sends a request carrying parameters to API Gateway to reset the password of an enterprise user.
8. API Gateway sends a request to Huawei Cloud Meeting Management Platform to reset the password of the enterprise user. Huawei Cloud Meeting Management Platform resets the password of the enterprise user and sends the new password to the mobile number or email address of the enterprise user.

13.2 APIs

13.2.1 Changing a Password

Description

This API is used by an enterprise user to change the password. When the server receives a request, it changes the password and returns the result.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 13-1 Prototype

Request Method	PUT
Request Address	/v1/usg/acs/password
Transport Protocol	HTTPS

Request Parameters

Table 13-2 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
Content-Type	Yes	String	Header	Media format of the body. <ul style="list-style-type: none">Example: application/json; charset=UTF-8
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
account	Yes	String	Body	Account, which must contain the domain name. maxLength : 255 minLength : 1

Parameter	Mandatory	Type	Location	Description
newPwd	Yes	String	Body	<p>New login password.</p> <p>Password requirements:</p> <ul style="list-style-type: none"> • The password contains 8 to 32 characters. • The password must contain at least two of the following: lowercase letters, uppercase letters, numbers, and special characters (<code>`~!@#\$%^&*()-_+=\ []{};:"',<>/?</code>). • The new password must be different from the old password. • The password cannot be updated within five minutes after the last password change. • The new password cannot be the same as passwords used recently. • The password cannot contain three or more of the same characters consecutively. • The password cannot be the same as the name or the reverse of the name (case insensitive). • The new password and old password must contain at least two different characters.
oldPwd	Yes	String	Body	<p>Old login password.</p> <p>maxLength: 32 minLength: 1</p>

Status Codes

Table 13-3 Status codes

HTTP Status Code	Description
200	Operation successful.

HTTP Status Code	Description
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/acs/password
Connection: keep-alive
X-Access-Token: stbWWx06NMIL9EtMVHJHXLgXSesds7YX9zFM
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "oldPwd": "*****",
  "newPwd": "*****",
  "account": "user002"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: c94f64967745b0670c299c0688479078
Server: api-gateway
X-Request-Id: bce6a227f986f25d3dfaf147ba75af8f
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stbWWx06NMIL9EtMVHJHXLgXSesds7YX9zFM' -d '{"account": "user02", "oldPwd": "*****", "newPwd": "*****"}' 'https://api.meeting.huaweicloud.com/v1/usg/acs/password'
```


13.2.2 Resetting the Password for an Enterprise User

Description

This API is used by an enterprise administrator to reset the password for an enterprise user. When receiving a password resetting request, the server resets the password, sends the new password to the email address or mobile number of the enterprise user, and returns the result.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 13-4 Prototype

Request Method	PUT
Request Address	/v1/usg/acs/password/admin/reset
Transport Protocol	HTTPS

Request Parameters

Table 13-5 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
Content-Type	Yes	String	Header	Media format of the body. Example: application/json; charset=UTF-8
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
account	Yes	String	Body	Account of the user whose password will be changed.

Status Codes

Table 13-6 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/acs/password/admin/reset
Connection: keep-alive
Content-Type: application/json
X-Access-Token: stb0nPMBk5cKDjKMT9H1QpDHRqvv4XV1acI
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_131)

{
  "account": "user001"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 143
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: c94f64967745b0670c299c0688479078
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stb0nPMBk5cKDjKMT9H1QpDHRqvv4XV1acli' -d '{"account":"user001"}' 'https://api.meeting.huaweicloud.com/v1/usg/acs/password/admin/reset'
```

13.2.3 Resetting a Forgotten Password

13.2.3.1 Scenarios

If an enterprise user forgot the password, the enterprise user can reset the password. The processes of resetting the password are as follows:

1. HUAWEI CLOUD Meeting Management Platform sends a puzzle piece CAPTCHA.
2. HUAWEI CLOUD Meeting Management Platform verifies the puzzle piece CAPTCHA.
3. HUAWEI CLOUD Meeting Management Platform sends a verification code.
4. HUAWEI CLOUD Meeting Management Platform verifies the verification code.
5. The enterprise user sets a new password.

13.2.3.2 Sending a Puzzle Piece CAPTCHA

Description

This API is used to send a puzzle piece CAPTCHA. After receiving the request, the server returns the puzzle piece and original image, which will be displayed on the frontend GUI. The enterprise user must fit the puzzle piece.

Figure 13-4 Puzzle piece CAPTCHA



Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 13-7 Prototype

Request Method	POST
Request Address	/v1/usg/acs/auth/slideverifycode/send
Transport Protocol	HTTPS

Request Parameters

Table 13-8 Parameters

Parameter	Mandatory	Type	Location	Description
Content-Type	Yes	String	Header	Media format of the body. Example: application/json; charset=UTF-8
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
checkType	No	Integer	Body	Verification type. Default value: 0 . <ul style="list-style-type: none">• 0: login.• 1: password retrieval.
clientType	Yes	Integer	Body	Type of the login client. <ul style="list-style-type: none">• 0: web client.• 5: PC client.• 6: mobile app.

Parameter	Mandatory	Type	Location	Description
user	Yes	String	Body	User identity information (mobile number, email address, or user account).

Status Codes

Table 13-9 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 13-10 Response parameters

Parameter	Type	Description
cutImage	String	Puzzle piece.
expire	Integer	Validity period of the CAPTCHA, in seconds.
pointY	Integer	Y coordinate of the puzzle piece.
shadowImage	String	Original image, which is defined using data:url .
token	String	Token of the verification code.

Example Request

```
POST /v1/usg/acs/auth/slideverifycode/send
Connection: keep-alive
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
{
```

```
"user": "+86136*****",  
"checkType": 1,  
"clientType": 0  
}
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Connection: keep-alive  
Pragma: No-cache  
Cache-Control: no-cache  
http_proxy_id: c94f64967745b0670c299c0688479078  
  
{  
  "shadowImage": "data:image/  
png;base64,iVBORw0KGgoAAAANSUHEUgAAASwAAABuCAYAAACdmi6mAACAAEQVR42py953cV19rtuUsi4  
4QDNjY4YAMGSQQFJCFEkhBjOCwhHMOKKGEUBZIIIFzXgQnjG3ACTDOPvY5571vuqNvju6e4zu/2P2nGvVljY  
+Pm/f0R/mWLWrdqhdUv32fJ71rLU8/kt3wbMwGc6iVHje/TOL/ZPHbBdnUDvhWcL3WJIF8CrbCrnH  
+TxVRD3BeY+uU8KzDKaeC8+NsoeP2aOB7qvX5oHz7J8eJZTWYXwhJTAE1YGz8pyeMKlCm6XwF  
+jqyEZ1UVPKtr4FnTCM/  
aJkrbjhrG9g22HYd921ogWc9t9fUUbXwRPM10WzX7KYabBvFxF6uq4UTyPSP4WRFI5vPsZ1MrK  
+CEV5r2SVVa6VhENd+jnufUYM+JcqK5vYrvH1Fjnx9abr/bimJ+X37PoDzz/Z9QEK/  
H8gJehy0TMEVgHCddAWr5EpHBK5ygmqNC7TrXKHkGLTGFYp17lBu9IZqixRqQkpMMP/  
wwVsk0JrLoLMlhGFrEay2KujtNTAIIQh31CHSWY9oJt7FgESPcCR7RgEpCwQ0FARDKrlXqCRgAqxw6oXJtLbMBS  
YKRqx1Yzhn8d8qwQcs1S5p3lrjkAl5udvMirAS05KvyGZ5bgGtlPu6jkTmtp1J4WvbTUzuy/  
fiZ5li8ymSyk8Z35sj/xv/L8sHCK6iGp3GAAAAAEIftkSuQmCC",  
  "cutImage": "data:image/  
png;base64,iVBORw0KGgoAAAANSUHEUgAAADEAAAAxCAYAAABznEEcAAAZA0IEQVR42s15Z1dU27ZtX6tyoI  
oqcgZFERBEFBUwISKZluecQUBFMICckjOYUEzbcE67Z+99zr3t3j9zf854fa5i7/3a/fBae+/T  
+9DbmGuu1PsYfey1VhWyix8h9dZjnCBiCD9hL3oE7eYscH0W2g1CxWszQOE0tMIHwNVpjhnz70PPn4J  
+ZYLjSeAa50ufl6x6Gc7qFaBqGVrjJkzte/B2vkJmxz5SW7fhatuHxm197BO0yV  
+A4SNovW85dwC07kBr3uR5G0DDGrTaVScwzGu9gFb6DNrtp0DxE8YngALHuFUyi5LSRyg9g1/  
hDbKY3mOphqezW+d/g7bg28wjR4Z4pUlrY0imjfgbFhFUv0yChpXcal2CYlVtNXu0yPML/xE//l/  
0Lj6OzuRtNED9L7RAz3HpNUf8S08pmUdWsOqAb1xzZjTmvicuHfvA4Zmf0ETRVtd  
+4hykIXkT5N4EkmeZZbPkmAmiaUTUayAl9GpHmlkzbWaNyGChgBlozeGjYxIEYqcpv4wJkYtW/BRIEfZr4lgP  
+i0k94RzK7GedW0Kuv6H5IXAts2ucRSSDPJN3G5baYg47xt/C/LhN3sJcF5bwAAAABJRU5ErkJggg==",  
  "pointY": 55,  
  "token": "x7QLcizPl2eAaNdkChs2XnrbEMHuF1dy",  
  "expire": 60  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

13.2.3.3 Verifying a Puzzle Piece CAPTCHA

Description

This API is used to verify a puzzle piece CAPTCHA. The server receives the request and returns the verification result. Users fit the puzzle piece on the GUI, and then the server verifies the puzzle piece CAPTCHA.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 13-11 Prototype

Request Method	PUT
Request Address	/v1/usg/acs/auth/slideverifycode/check
Transport Protocol	HTTPS

Request Parameters

Table 13-12 Parameters

Parameter	Mandatory	Type	Location	Description
Content-Type	Yes	String	Header	Media format of the body. Example: application/json; charset=UTF-8
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
checkType	No	Integer	Body	Verification type. <ul style="list-style-type: none"> • 0: login. • 1: password retrieval. Default value: 0 .
clientType	Yes	Integer	Body	Type of the login client. <ul style="list-style-type: none"> • 0: web client. • 5: PC client. • 6: mobile app.
pointX	Yes	Integer	Body	X coordinate of the puzzle piece.

Parameter	Mandatory	Type	Location	Description
slideTime	Yes	Integer	Body	Time used to fit the puzzle piece, in milliseconds.
token	Yes	String	Body	Token of the verification code. Obtain the value by calling the API for Sending a Puzzle Piece CAPTCHA .
user	Yes	String	Body	The value must be the same as the user identity information contained in the request for sending the puzzle piece CAPTCHA.

Status Codes

Table 13-13 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 13-14 Response parameters

Parameter	Type	Description
expire	Integer	Validity period, in seconds.
token	String	Access token.

Example Request

```
PUT /v1/usg/acs/auth/slideverifycode/check
Connection: keep-alive
```



```
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "checkType": 1,
  "clientType": 0,
  "pointX": 248,
  "slideTime": 4906,
  "token": "PXB2RkHvI88hHwRv9dGFVN234I7h55IEZ",
  "user": "+86136*****"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: c94f64967745b0670c299c0688479078

{
  "token": "AYXn7vT60uJwRwpC1l1KRZnQuQNJRqsLM",
  "expire": 60
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

13.2.3.4 Sending an SMS or Email Verification Code

Description

This API is used to send a verification code. A user requests to obtain a verification code after passing the verification of the puzzle piece CAPTCHA on the GUI. After receiving a request, the server sends a verification code to the email address or mobile number.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 13-15 Prototype

Request Method	POST
Request Address	/v1/usg/acs/verifycode/send

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 13-16 Parameters

Parameter	Mandatory	Type	Location	Description
Content-Type	Yes	String	Header	Media format of the body. Example: application/json; charset=UTF-8
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
sendMethod	No	String	Body	Mode for sending the verification code. This parameter is mandatory when the user type is a real user account. The default value is sms . <ul style="list-style-type: none"> • sms: SMS mode. • email: email mode.
token	No	String	Body	Access token. Obtain the value by calling the API for Verifying a Puzzle Piece CAPTCHA .

Parameter	Mandatory	Type	Location	Description
user	Yes	String	Body	User identity information (mobile number, email address, or user account). NOTE The value must be the same as the user identity information contained in the request for sending the puzzle piece CAPTCHA.

Status Codes

Table 13-17 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 13-18 Response parameters

Parameter	Type	Description
bindEmail	String	If the verification code is sent to an email address, set this parameter to the email address bound to the user. (The email address is processed to mask some middle characters, for example, tes****ount@huawei.com.)

Parameter	Type	Description
bindPhone	String	If a verification code is sent to a mobile number, set this parameter to the mobile number bound to the user. (The mobile number is processed to mask some middle characters, for example, +86181****2345.)
expire	Integer	Validity period, in seconds.

Example Request

```
POST /v1/usg/acs/verifycode/send
Connection: keep-alive
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "token": "R7PE9vsaEUHjiLsraWTF3WQhmBet16Sbl",
  "user": "+86136*****"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: c94f64967745b0670c299c0688479078

{
  "expire":180,
  "bindPhone":"+8618*****",
  "bindEmail":null
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

13.2.3.5 Verifying an SMS/Email Verification Code

Description

This API is used to verify a verification code. After receiving a request, the server returns the result.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 13-19 Prototype

Request Method	PUT
Request Address	/v1/usg/acs/verifycode/check
Transport Protocol	HTTPS

Request Parameters

Table 13-20 Parameters

Parameter	Mandatory	Type	Location	Description
Content-Type	Yes	String	Header	Media format of the body. Example: application/json; charset=UTF-8
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
code	Yes	String	Body	Verification code. maxLength: 32 minLength: 1
user	Yes	String	Body	The value must be the same as the user identity information contained in the request for sending the verification code.

Status Codes

Table 13-21 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 13-22 Response parameters

Parameter	Type	Description
token	String	Access token, a string.
expire	Integer	Validity period, in seconds.

Example Request

```
PUT /v1/usg/acs/verifycode/check
Connection: keep-alive
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "code": "374104",
  "user": "+86136****9209"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: c94f64967745b0670c299c0688479078

{
  "token": "hYRErvNnuqEuseSo0PoDBLMvol71wJm7",
  "expire": 180
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

13.2.3.6 Resetting a User Password

Description

This API is used to reset a user password. After receiving a request, the server resets the user password and returns the result.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 13-23 Prototype

Request Method	PUT
Request Address	/v1/usg/acs/password/reset
Transport Protocol	HTTPS

Request Parameters

Table 13-24 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Obtain the token returned in Verifying a Verification Code .
Content-Type	Yes	String	Header	Media format of the body. Example: application/json; charset=UTF-8

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
newPwd	Yes	String	Body	<p>New login password.</p> <p>Password requirements:</p> <ul style="list-style-type: none"> • Password length: 8–32 characters. • The password must contain at least two of the following: lowercase letters, uppercase letters, numbers, and special characters. • The password cannot contain three or more of the same characters consecutively. • The password cannot be the same as the name or the reverse of the name (case insensitive).

Parameter	Mandatory	Type	Location	Description
passWordType	No	Integer	Body	<ul style="list-style-type: none">• 1: temporary password. After the user password is reset, the user may be forced to change the password after logging in to Huawei Cloud Meeting Management Platform based on configurations.• Other values: formal password. After the user password is reset, the user does not need to change the password after logging in to Huawei Cloud Meeting Management Platform.
user	Yes	String	Body	User identity information (mobile number, email address, or user account).

Status Codes

Table 13-25 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/acs/password/reset
Connection: keep-alive
X-Access-Token: hYRIErVnNuqEuseSo0PoDBLMvol71wJm7
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "user": "+86136****9209",
  "newPwd": "*****"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
http_proxy_id: c94f64967745b0670c299c0688479078
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

14 Corporate Directory Query

14.1 Examples

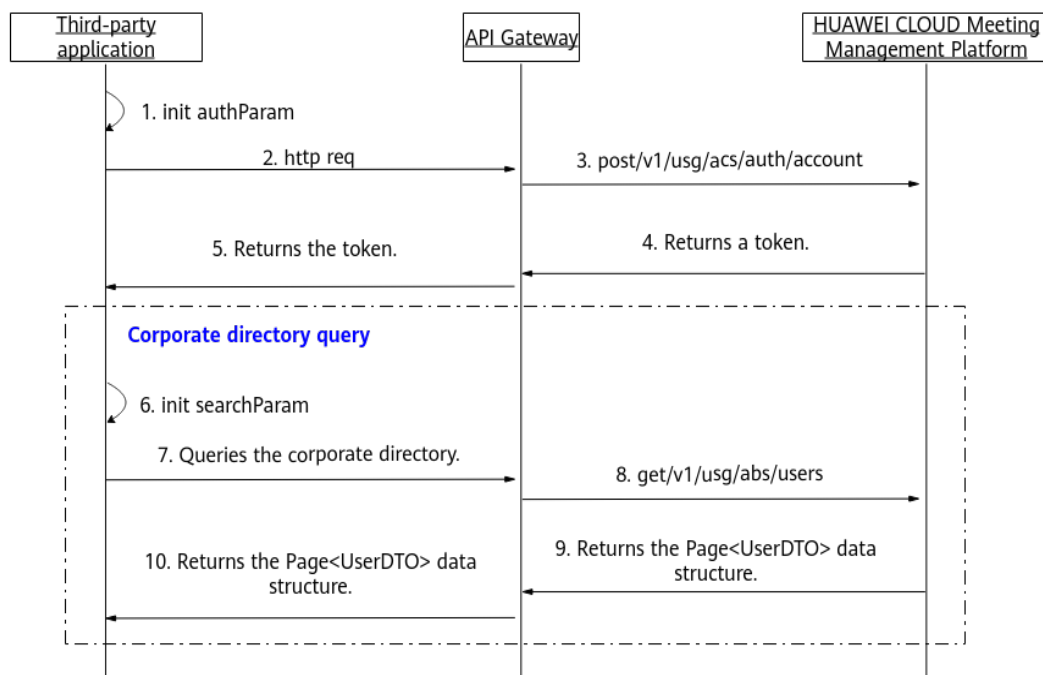
14.1.1 Querying the Corporate Directory

Scenarios

After logging in to Huawei Cloud Meeting Management Platform using an enterprise user or administrator account, a third-party application can query the corporate directory.

Service Process

Figure 14-1 Process of querying the corporate directory



1. A third-party application logs in to Huawei Cloud Meeting Management Platform using an enterprise user or administrator account and password to obtain a token.
2. The third-party application initializes parameters such as the query offset and search criteria, and sends a request carrying these parameters to API Gateway to query the corporate directory.
3. API Gateway sends a request to query the corporate directory to Huawei Cloud Meeting Management Platform.
4. Huawei Cloud Meeting Management Platform returns the corporate directory details to API Gateway.
5. API Gateway returns the corporate directory details to the third-party application.

14.2 APIs

14.2.1 Querying the Corporate Directory

Description

This API is used by an enterprise user or administrator to query the corporate directory.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 14-1 Prototype

Request Method	GET
Request Address	/v1/usg/abs/users
Transport Protocol	HTTPS

Request Parameters

Table 14-2 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 100
searchKey	No	String	Query	Search criteria. Fuzzy search by account, SIP number, name, mobile number, and email address is supported.
deptCode	No	String	Query	Department code. maxLength : 32 minLength : 0
querySubDept	No	Boolean	Query	Whether to query users in lower-level departments. Default value: true .

Parameter	Mandatory	Type	Location	Description
searchScope	No	String	Query	<p>Search scope.</p> <ul style="list-style-type: none"> ● NORMAL_USER: common users. Common user data is returned. (In the response, the value of isHardTerminal is false and the value of type is NORMAL_USER.) ● HARD_TERMINAL: hard terminal users. Response: Whiteboard users (In the response, the value of isHardTerminal is false and the value of type is WHITE_BOARD.) Hard terminal users (In the response, the value of isHardTerminal is true and the value of type is HARD_TERMINAL.) IdeaHub users (In the response, the value of isHardTerminal is false and the value of type is IDEA_HUB_MEMBER.) ● ALL: all users. Default value: ALL.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 14-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 14-4 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of UserDTO objects	Enterprise user details.

Table 14-5 UserDTO data structure

Parameter	Type	Description
account	String	User account.
deptName	String	Department that the user belongs to.
description	String	User description.
email	String	Email address.
englishName	String	English name of the user.

Parameter	Type	Description
hidePhone	Boolean	Whether to hide the user's mobile number. If the value is true , the mobile number of the user is not returned when other users query the user.
id	String	User ID.
isHardTerminal	Boolean	Whether the account is a hard terminal account. NOTE This parameter will be discarded. Do not use it.
name	String	Name of the user.
number	String	SIP number.
phone	String	Mobile number.
signature	String	User signature.
statusCode	Integer	When user details are queried, the response varies depending on the scenario. <ul style="list-style-type: none"> • 0: If the query is successful and the user information has changed, the new user information is returned in the response. • 1: If the query is successful and the user information has not changed, only the user ID is returned in the response. • 2: The user does not exist. • 3: No permissions to query the user.
title	String	Job title.
type	String	User type. <ul style="list-style-type: none"> • NORMAL_USER: common user. • HARD_TERMINAL: hard terminal user. • WHITE_BOARD: third-party whiteboard. • HW_VISION_MEMBER: smart TV. • IDEA_HUB_MEMBER: IdeaHub user.
updateTime	Long	Time when the user information was last updated, in timestamp format.
vmrId	String	Personal meeting ID of the user.
deptCodes	Array of strings	Department code list.

Example Request

```
GET /v1/usg/abs/users
Connection: keep-alive
```



```
X-Access-Token: stbiQWNk96PwWeKsA32h81u9YSiK3xZhpNEU
Content-Type: application/json
Content-Length: 102
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
http_proxy_id: 1fd3a76bc862c7bc7f7c9b09bea87647
Server: api-gateway
X-Request-Id: 7f3dc39fd1af5f1f274641d46ed720ba

{
  "offset": 0,
  "limit": 100,
  "count": 1,
  "data": [
    {
      "id": "067f692ed2ce492182a44579f6bc82aa",
      "statusCode": 0,
      "account": "067f692ed2ce492182a44579f6bc82aa",
      "name": "TE30",
      "englishName": null,
      "email": null,
      "phone": null,
      "deptName": "wangyue",
      "number": "+99111283523475338",
      "signature": null,
      "title": null,
      "description": null,
      "vmrld": null,
      "updateTime": 1567405876353,
      "isHardTerminal": true,
      "hidePhone": false,
      "type": "HARD_TERMINAL",
      "deptCodes": [
        "1"
      ]
    }
  ]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbiQWNk96PwWeKsA32h81u9YSiK3xZhpNEU' https://api.meeting.huaweicloud.com/v1/usg/abs/users
```

14.2.2 Querying External Contacts

Description

This API is used by enterprise users (including administrators) to query external contacts of an enterprise or their own external contacts.

Debugging

You can debug this API in [API Explorer](#).

URI

GET /v1/usg/abs/external-contacts

Request Parameters

Table 14-6 Query parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 . Minimum value: 0 Default value: 0
limit	No	Integer	Query	Number of records to query. Default value: 10 . Minimum value: 1 Maximum value: 500 Default value: 10
searchKey	No	String	Query	Search criteria. Fuzzy search by name, mobile number, and email address is supported. Minimum length: 0 Maximum length: 1024
searchScope	No	String	Query	Search scope. Default value: ALL . <ul style="list-style-type: none"> ● PERSONAL: individual's external contacts. ● CORP: enterprise's external contacts. ● ALL: all external contacts. Default value: ALL

Table 14-7 Request header parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Access token. Use the value of accessToken returned by the API for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Response Parameters

Status code: 200

Table 14-8 Response body parameters

Parameter	Type	Description
offset	Integer	Number of the query start page. The value starts from 0 .
limit	Integer	Number of records displayed per page. Default value: 10 .
count	Integer	Total number of records.
data	Array of ExternalContactDTO objects	External contact details by page.

Table 14-9 ExternalContactDTO

Parameter	Type	Description
otherNumber	String	Other number. NOTE <ul style="list-style-type: none"> The value must be prefixed with a country code. When otherNumber is specified, otherNumberCountry must also be specified. To clear the mobile number settings, leave otherNumberCountry and otherNumber empty. Minimum length: 0 Maximum length: 32
otherNumberCountry	String	Country or region that the mobile number belongs to. Minimum length: 0 Maximum length: 32
country	String	Country or region that the mobile number belongs to. Default value: chinaPR Maximum length: 255
phone	String	Mobile number. NOTE <ul style="list-style-type: none"> The value must be prefixed with a country code. When phone is specified, country must also be specified. To clear the mobile number settings, leave country and phone empty. Minimum length: 0 Maximum length: 32
email	String	Email address. Minimum length: 0 Maximum length: 255
corpName	String	Organization name. Minimum length: 0 Maximum length: 64
deptName	String	Department. Minimum length: 0 Maximum length: 64
position	String	Job title. Minimum length: 0 Maximum length: 64

Parameter	Type	Description
address	String	Personal address. Minimum length: 0 Maximum length: 1024
remarks	String	Remarks. Minimum length: 0 Maximum length: 1024
id	String	UUID of an external contact.
name	String	Name.
customNumber	String	User-defined number of the external contact. NOTE This parameter is used only in VDC scenarios.
updateTime	Number	Time when the user information was last updated.
type	String	Type of the external contact. <ul style="list-style-type: none"> ● PERSONAL: individual's external contact. ● CORP: enterprise's external contact.

Example Request

```
GET https://{endpoint}/v1/usg/abs/external-contacts?offset=0&limit=5&searchScope=CORP
```

Example Response

Status code: 200

Succeeded

```
{
  "offset" : 0,
  "limit" : 5,
  "count" : 1,
  "data" : [ {
    "otherNumber" : "",
    "otherNumberCountry" : "",
    "country" : "chinaPR",
    "phone" : "+86135xxxx0611",
    "email" : "*****",
    "corpName" : null,
    "deptName" : null,
    "position" : null,
    "address" : null,
    "remarks" : null,
    "id" : "af4aaae4b29d45649e3c61f48ee2f64b",
    "name" : "Lucy",
    "customNumber" : null,
    "type" : "CORP",
    "updateTime" : 1665994358499
  } ]
}
```

Status Codes

Status Code	Description
200	Succeeded

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

15 Enterprise Resource Management

15.1 Allocating Enterprise Resources as an SP Administrator

Description

This API is used to allocate new enterprise resources. This API can also be used to modify allocated enterprise resources. If **resourceId** is carried in the request, the system determines whether the resource exists. If the resource exists, the system modifies the resource. (For details about parameters that can be modified, see the API for modifying enterprise resources.) Otherwise, the system adds the resource.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 15-1 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/sp/corp/{corp_id}/resource
Transport Protocol	HTTPS

Request Parameters

Table 15-2 Parameters

Parameter	Mandatory	Type	Location	Description
corp_id	Yes	String	Path	Enterprise ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of ResourceDTO objects	Body	List of resources to be added. The list can contain up to 100 resources.

Status Codes

Table 15-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/sp/corp/818803911/resource
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki
Content-Type: application/json
Content-Length: 31
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

[
  {
    "count": 10,
    "expireDate": 2549030400000,
    "type": "VMR",
    "typeId": "ff808081699b56cb0169c411a0980152"
  }
]
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbvmKo5lr6vT7QIzKHg4iqicUBcYMb3qlki' -d '{"count": 10,"expireDate": 2549030400000,"id": "733ff391f2a14360af3b93bd1325f9f9","type": "VMR","typeId": "ff808081699b56cb0169c411a0980152"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/818803911/resource
```

15.2 Deleting Enterprise Resources as an SP Administrator

Description

This API is used to delete enterprise resources. After resources are deleted, the total number of enterprise resources automatically decreases.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 15-4 Prototype

Request Method	POST
Request Address	/v1/usg/dcs/sp/corp/{corp_id}/resource/delete
Transport Protocol	HTTPS

Request Parameters

Table 15-5 Parameters

Parameter	Mandatory	Type	Location	Description
corp_id	Yes	String	Path	Enterprise ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	List of IDs of resources to be deleted. The list can contain up to 100 resource IDs.

Status Codes

Table 15-6 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/dcs/sp/corp/818803911/resource/delete
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QlzKHg4iqicUBcYMb3qlki
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

[
  "5d35397d67504dd1b7e1766a25f1be11",
  "45b18534f2cd4c96b97b6bf0ce298146"
]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X DELETE -H 'X-Access-Token: stbvmKo5lr6vT7QlzKHg4iqicUBcYMb3qlki' https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/818803911/resource/delete
```

15.3 Modifying Enterprise Resources as an SP Administrator

Description

This API is used to modify the expiration time and suspension status of enterprise resources.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 15-7 Prototype

Request Method	PUT
Request Address	/v1/usg/dcs/sp/corp/{corp_id}/resource
Transport Protocol	HTTPS

Request Parameters

Table 15-8 Parameters

Parameter	Mandatory	Type	Location	Description
corp_id	Yes	String	Path	Enterprise ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of ModResourceDTO objects	Body	List of resources to be modified. The list can contain up to 100 resources.

Table 15-9 ModResourceDTO data structure

Parameter	Mandatory	Type	Location	Description
expireDate	No	Long	Body	Time when a resource expires.
id	Yes	String	Body	Resource ID.
isDisabled	No	Boolean	Body	Whether the resource is disabled.

Parameter	Mandatory	Type	Location	Description
type	No	String	Body	<p>Resource type. id and type uniquely identify an enterprise resource. If only the resource ID is specified, multiple resources may be modified.</p> <ul style="list-style-type: none"> • VMR: cloud meeting room. • CONF_CALL: concurrent participant. • HARD_1080P: 1080p hard terminal access account. • HARD_720P: 720p hard terminal access account. • SOFT: user account. • ROOM: whiteboard account. • LIVE: live broadcast port. • RECORD: recording storage space. • HARD_THIRD_PARTY: third-party hard terminal access account. • HUAWEI_VISION: smart TV account.

Status Codes

Table 15-10 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/dcs/sp/corp/818803911/resource
Connection: keep-alive
X-Access-Token: stbvmKo5lr6vT7QlzKHg4iqicUBcYMb3qlki
Content-Type: application/json
Content-Length: 53
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

[
  {
    "expireDate": 2549030400000,
    "id": "733ff391f2a14360af3b93bd1325f9f9",
    "isDisabled": false,
    "type": "VMR"
  }
]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: stbvmKo5lr6vT7QlzKHg4iqicUBcYMb3qlki' -d '{"expireDate": 2549030400000,"id": "733ff391f2a14360af3b93bd1325f9f9","isDisabled": false,"type": "VMR"}' https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/818803911/resource
```

15.4 Querying Enterprise Resources by Page as an SP Administrator

Description

This API is used by an SP to query enterprise resources that match specific conditions.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 15-11 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/sp/corp/{corp_id}/resource
Transport Protocol	HTTPS

Request Parameters

Table 15-12 Parameters

Parameter	Mandatory	Type	Location	Description
corp_id	Yes	String	Path	Enterprise ID.
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria.

Parameter	Mandatory	Type	Location	Description
startExpireDate	No	Integer	Query	If this parameter is specified, resources whose expiration time is later than the specified date are queried.
endExpireDate	No	Integer	Query	If this parameter is specified, resources whose expiration time is earlier than the specified date are queried.
type	No	String	Query	Resource type.
typeId	No	String	Query	Resource type ID. For example, if you want to query five-participant cloud meeting rooms, set this parameter to the ID of the five-participant cloud meeting room package.
status	No	Integer	Query	Resource status. <ul style="list-style-type: none"> • 0: normal. • 1: expired (returned only during query). • 2: disabled.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 15-13 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 15-14 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryResourceResultDTO objects	Enterprise user details.

Table 15-15 QueryResourceResultDTO data structure

Parameter	Type	Description
count	Integer	Resource quantity.
editable	Boolean	Whether a resource can be edited or deleted. If the value is false , buttons for modifying or deleting resources must be hidden on the GUI.
expireDate	Long	UTC time when the resource expires.

Parameter	Type	Description
id	String	Uniquely identifies a resource. If the request carries this parameter, the parameter value is used. Otherwise, the backend automatically generates a UUID.
status	Integer	Resource status. <ul style="list-style-type: none"> • 0: normal. • 1: expired. • 2: disabled.
type	String	Resource type. <ul style="list-style-type: none"> • VMR: cloud meeting room. • CONF_CALL: concurrent participant. • HARD_1080P: 1080p hard terminal access account. • HARD_720P: 720p hard terminal access account. • SOFT: user account. • ROOM: whiteboard account. • LIVE: live broadcast port. • RECORD: recording storage space. • HARD_THIRD_PARTY: third-party hard terminal access account. • HUAWEI_VISION: smart TV account. • IDEA_HUB - ideahub
typeDesc	String	Description of the resource type. For example, if the resource type is cloud meeting room, the value of this parameter is the name of the cloud meeting room package.
typeId	String	Resource type ID. For example, if the resource type is cloud meeting room, the value of this parameter is the ID of the cloud meeting room package.
vmrMode	Integer	Cloud meeting room mode. <ul style="list-style-type: none"> • 0: personal meeting ID. • 1: cloud meeting room. • 2: webinar.
orderId	String	Order ID corresponding to the resource.

Example Request

```
GET /v1/usg/dcs/sp/corp/818803911/resource?
offset=0&limit=5&searchKey=&startExpireDate=&endExpireDate=&type=&typeld=&status=0
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 63facce44898efa03629afd189da7f0f

{
  "count": 1,
  "data": [
    {
      "count": 10,
      "editable": true,
      "expireDate": 2549030400000,
      "id": "b974dfbe2daf456880afd10c80d12c9f",
      "status": 0,
      "type": "VMR",
      "typeDesc": null,
      "typeld": "ff808081699b56cb0169c411a0980152"
    }
  ],
  "limit": 5,
  "offset": 0
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF'
https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/818803911/resource?
offset=0&limit=5&searchKey=&startExpireDate=&endExpireDate=&type=&typeld=&status=0
```

15.5 Querying Enterprise Resource Operation Records by Page as an SP Administrator

Description

This API is used by an SP to query enterprise resource operation records that match specific search criteria. Fuzzy search based on resource ID is supported.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 15-16 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/sp/corp/{corp_id}/resource-record
Transport Protocol	HTTPS

Request Parameters

Table 15-17 Parameters

Parameter	Mandatory	Type	Location	Description
corp_id	Yes	String	Path	Enterprise ID.
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria.
startExpireDate	No	Integer	Query	If this parameter is specified, operation records of resources whose expiration time is later than the specified date are queried.
endExpireDate	No	Integer	Query	If this parameter is specified, operation records of resources whose expiration time is earlier than the specified date are queried.

Parameter	Mandatory	Type	Location	Description
startOperateDate	No	Integer	Query	If this parameter is specified, operation records of resources whose operation time is later than the specified date are queried.
endOperateDate	No	Integer	Query	If this parameter is specified, operation records of resources whose operation time is earlier than the specified date are queried.
type	No	String	Query	Resource type.
typeId	No	String	Query	Resource type ID. For example, if you want to query five-participant cloud meeting rooms, set this parameter to the ID of the five-participant cloud meeting room package.
operateType	No	Integer	Query	Operation type. <ul style="list-style-type: none"> ● 0: addition. ● 1: deletion. ● 2: modification. ● 3: disabling. ● 4: enabling.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 15-18 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 15-19 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of QueryResourceResultDTO objects	Enterprise resource items by page.

Example Request

```
GET /v1/usg/dcs/sp/corp/746781680/resource-record?
searchKey=&startExpireDate=1573488000000&endExpireDate=1620835199999&startOperateDate=15734880
00000&endOperateDate=1589299199999&type=&typeId=&orderId=&operateType=&offset=0&limit=10
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 556
Connection: keep-alive
Pragma: No-cache
```

```
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 63facce44898efa03629afd189da7f0f

{
  "offset": 0,
  "limit": 10,
  "count": 2,
  "data": [
    {
      "id": "4c6e7a9c644f4a4abe8c901341b48027",
      "type": "CONF_CALL",
      "typeId": "",
      "typeDesc": null,
      "count": 10,
      "expireDate": 1620403200000,
      "orderId": "89e60765e62c47e2b6d37356e7eaac04"
    },
    {
      "id": "4c6e7a9c644f4a4abe8c901341b48027",
      "type": "CONF_CALL",
      "typeId": "",
      "typeDesc": null,
      "count": 10,
      "expireDate": 1620403200000,
      "orderId": "89e60765e62c47e2b6d37356e7eaac04"
    }
  ]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF'
https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/corp/746781680/resource-record?
searchKey=&startExpireDate=1573488000000&endExpireDate=1620835199999&startOperateDate=15734880
00000&endOperateDate=1589299199999&type=&typeId=&orderId=&operateType=&offset=0&limit=10
```

15.6 Querying Resource Information as an SP Administrator

Description

This API is used by an SP administrator to query all resources of the SP, including used resources.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 15-20 Prototype

Request Method	GET
Request Address	/v1/usg/dcs/sp/resource
Transport Protocol	HTTPS

Request Parameters

Table 15-21 Parameters

Parameter	Mandatory	Type	Location	Description
queryGroup	No	Boolean	Query	Whether to return media ingestion group IDs during resource information query. By default, media ingestion group IDs are not returned.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 15-22 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 15-23 Response parameters

Parameter	Type	Description
confCallCount	ResDetailDTO object	Number of concurrent participants.
corpCount	ResDetailDTO object	Total number of enterprises.
enablePstn	Boolean	Whether PSTN is enabled during enterprise creation.
enableSMS	Boolean	Whether to send meeting notifications by SMS message.
groupList	Array of QueryCorpGroupDTO objects	List of groups bound to the SP administrator.
hwVisionCount	ResDetailDTO object	Number of smart TV access accounts.
ideaHubCount	ResDetailDTO object	Number of IdeaHub access accounts.
liveCount	ResDetailDTO object	Number of live broadcast ports.
recordCapability	ResDetailDTO object	Recording storage space, in GB.
roomCount	ResDetailDTO object	Number of whiteboard (SmartRooms) access accounts.
te1080pHardCount	ResDetailDTO object	Number of 1080p hard terminal access accounts.
te720pHardCount	ResDetailDTO object	Number of 720p hard terminal access accounts.
teSoftCount	ResDetailDTO object	Number of user accounts.

Parameter	Type	Description
thirdPartyHardCount	ResDetailDTO object	Number of third-party hard terminal access accounts.

Table 15-24 QueryCorpGroupDTO data structure

Parameter	Type	Description
groupId	String	Media ingestion group ID.
groupName	String	Group name.
groupType	Integer	Group type.
regionId	String	Region ID. This parameter is mandatory only in the service list grouping scenario.
remarks	String	Group remarks.
status	Integer	Group status. <ul style="list-style-type: none"> 0: normal. 1: disabled. After service list grouping is disabled, new enterprises will not be automatically allocated to this group.

Example Request

```
GET /v1/usg/dcs/sp/resource?queryGroup=true
Connection: keep-alive
X-Access-Token: stbVbWSIgzfOQ8JnbnmPloBIR3ig8xnVScQOF
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Tue, 17 Dec 2019 09:32:47 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 439e8b710378987ffc5eb844b5e5c297

{
  "confCallCount": {
    "expiredCount": 0,
    "expiringCount": 0,
    "sumCount": 20,
    "trialCount": 0,
    "usedCount": 6
  },
  "corpCount": {
```

```
"expiredCount": 0,
"expiringCount": 0,
"sumCount": 1,
"trialCount": 0,
"usedCount": 0
},
"enablePstn": true,
"enableSMS": true,
"hwVisionCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 2,
  "trialCount": 0,
  "usedCount": 0
},
"ideaHubCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 0,
  "trialCount": 0,
  "usedCount": 0
},
"liveCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 20,
  "trialCount": 0,
  "usedCount": 6
},
"recordCapability": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 20,
  "trialCount": 0,
  "usedCount": 5
},
"roomCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 20,
  "trialCount": 0,
  "usedCount": 4
},
"te1080pHardCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 20,
  "trialCount": 0,
  "usedCount": 1
},
"te720pHardCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 20,
  "trialCount": 0,
  "usedCount": 2
},
"teSoftCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 20,
  "trialCount": 0,
  "usedCount": 3
},
"thirdPartyHardCount": {
  "expiredCount": 0,
  "expiringCount": 0,
  "sumCount": 20,
  "trialCount": 0,
```

```
    "usedCount": 7
  },
  "groupList": [
    {
      "groupId": "297e87ec7713734b01771458c2d80000",
      "groupName": "Test Group",
      "groupType": 3,
      "regionId": "393e8fec7413734b01s71458c2d80s01",
      "remarks": "Test",
      "status": 0
    }
  ]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: stbVbWSIgzfOQ8JnbmPloBIR3ig8xnVScQOF' https://api.meeting.huaweicloud.com/v1/usg/dcs/sp/resource
```

16 Meeting Minutes

16.1 Opening the List of Meeting Minutes

Description

This API is used to open the list of meeting minutes of a user after the user scans the QR code using the Huawei Cloud Meeting app. QR code content: cloudlink://cloudlink.huawei.com/h5page?action=OPEN_MEETING_FILE_LIST&key1=value1&key2=value2. The number of keys and values may change. After parsing the request, the client saves all keys and values as a map and uses them as input parameters when initiating subsequent requests.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 16-1 Prototype

Request Method	POST
Request Address	/v1/usg/sss/meeting-files/open-meeting-file-list
Transport Protocol	HTTPS

Request Parameters

Table 16-2 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
{Customized_key}	Yes	Map<String,String>	Body	Map of all keys and values in the QR code content.

Status Codes

Table 16-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/meeting-files/open-meeting-file-list
Connection: keep-alive
X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "uuid": "00842ae2249c4e508df7240cce5c7f5b"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 0b8d13a830184398a74ff1cf1c61e07d
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI' -d '{"uuid": "00842ae2249c4e508df7240cce5c7f5b"}' https://api.meeting.huaweicloud.com/v1/usg/sss/meeting-files/open-meeting-file-list
```

16.2 Saving Meeting Minutes to eMeetings

Description

This API is used to save meeting minutes to eMeetings of a user after the user scans the QR code using the Huawei Cloud Meeting app. QR code content: cloudlink://cloudlink.huawei.com/h5page?action=SAVE_MEETING_FILE&key1=value1&key2=value2. The number of keys and values may change. After parsing the request, the client saves all keys and values as a map and uses them as input parameters when initiating subsequent requests.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 16-4 Prototype

Request Method	POST
Request Address	/v1/usg/sss/meeting-files/save-to-personal-space
Transport Protocol	HTTPS

Request Parameters

Table 16-5 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
{Customized_key}	Yes	Map<String,String>	Body	Map set of all keys and values in the QR code content.

Status Codes

Table 16-6 Status codes

HTTP Status Code	Description
200	Operation successful.

HTTP Status Code	Description
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/meeting-files/save-to-personal-space
Connection: keep-alive
X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "uuid": "42b8e80be5044513ae20edd4ad705272"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 270221481fc694f03628e85edf24a0b7
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI' -d '{"uuid": "42b8e80be5044513ae20edd4ad705272"}' https://api.meeting.huaweicloud.com/v1/usg/sss/meeting-files/save-to-personal-space
```

16.3 Querying the List of Meeting Minutes

Description

This API is used by a user to query meeting minutes of the user.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 16-7 Prototype

Request Method	GET
Request Address	/v1/usg/sss/meeting-files
Transport Protocol	HTTPS

Request Parameters

Table 16-8 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 16-9 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 16-10 Response parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of ListMeetingFileResponseDTO objects	List of meeting minutes.

Table 16-11 ListMeetingFileResponseDTO data structure

Parameter	Type	Description
fileCode	String	Code of a meeting minutes file.

Parameter	Type	Description
fileId	String	File ID.
fileName	String	File name.
fileSize	Long	File size, in bytes.
pdfFileId	String	PDF file ID.
pdfFileName	String	PDF file name.
pdfFileSize	Long	PDF file size, in bytes.
thumbnailFileId	String	Thumbnail file ID.
thumbnailFileName	String	Thumbnail file name.
thumbnailFileSize	Long	Thumbnail file size, in bytes.
topic	String	File subject.
creationTimestamp	Long	Timestamp when the file was created.
userId	String	User UUID.

Example Request

```
GET /v1/usg/sss/meeting-files?offset=0&limit=10&searchKey=
Connection: keep-alive
X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 63facce44898efa03629afd189da7f0f

{
  "count": 1,
  "data": {
    "creationTimestamp": 1592795500847,
    "fileCode": "31531e3de7904613a2364c9e1df1fe11",
    "fileId": "5",
    "fileName": "20200622_111136_meeting_record.White.cwb",
    "fileSize": 8044,
    "pdfFileId": "7",
    "pdfFileName": "20200622_111136_meeting_record.White.pdf",
    "pdfFileSize": 63787,
    "thumbnailFileId": "6",
```

```

    "thumbnailFileName": "20200622_111136_meeting_record.White.jpg",
    "thumbnailFileSize": 62816,
    "topic": "20200622_111136_meeting_record.White",
    "userId": "562ed8350ad5472a807ba41c22e77ae6"
  },
  "limit": 10,
  "offset": 0
}

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```

curl -k -i -X GET -H 'X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI'
https://api.meeting.huaweicloud.com/v1/usg/sss/meeting-files?offset=0&limit=10

```

16.4 Querying Meeting Minutes Details

Description

This API is used to query the details about a meeting minutes file.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 16-12 Prototype

Request Method	GET
Request Address	/v1/usg/sss/meeting-files/{file_code}
Transport Protocol	HTTPS

Request Parameters

Table 16-13 Parameters

Parameter	Mandatory	Type	Location	Description
file_code	Yes	String	Path	Code of a meeting minutes file.

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 16-14 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 16-15 Response parameters

Parameter	Type	Description
fileCode	String	Code of a meeting minutes file.
fileId	String	File ID.
fileName	String	File name.
fileSize	Long	File size, in bytes.

Parameter	Type	Description
pdfFileId	String	PDF file ID.
pdfFileName	String	PDF file name.
pdfFileSize	Long	PDF file size, in bytes.
thumbnailFileId	String	Thumbnail file ID.
thumbnailFileName	String	Thumbnail file name.
thumbnailFileSize	Long	Thumbnail file size, in bytes.
topic	String	File subject.
creationTimestamp	Long	Timestamp when the file was created.
fileUrl	String	File URL.
pdfUrl	String	PDF file URL.
thumbnailUrl	String	Thumbnail file URL.

Example Request

```
GET /v1/usg/sss/meeting-files/31531e3de7904613a2364c9e1df1fe11
Connection: keep-alive
X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 24fa2ceds823efa03629afd189da7f0d

{
  "creationTimestamp": 1592795500847,
  "fileCode": "31531e3de7904613a2364c9e1df1fe11",
  "fileId": "5",
  "fileName": "20200622_111136_meeting_record.White.cwb",
  "fileSize": 8044,
  "fileUrl": "https://usg-sss-meeting-file-078bb3cf07ac46bf8b30ae23a0efe047.obs.cn-north-4.myhuaweicloud.com:443/8454/80f44a5dbc744804a90e254031285b64/c1217acca9c2454ca87649995cfe875d.cwb?AccessKeyId=9K64BZ4AQDLZGBBFLMQS&Expires=1619076436&Signature=%2Fkr7XSECAHQF6841KG%2FKLtsqSM%3D",
  "pdfFileId": "7",
  "pdfFileName": "20200622_111136_meeting_record.White.pdf",
  "pdfFileSize": 63787,
```



```
"pdfUrl": "https://usg-sss-meeting-file-078bb3cf07ac46bf8b30ae23a0efe047.obs.cn-  
north-4.myhuaweicloud.com:443/8454/80f44a5dbc744804a90e254031285b64/  
c1217acca9c2454ca87649995cfe875d.pdf?  
AccessKeyId=9K64BZ4AQDLZGBBFLMQS&Expires=1619076436&Signature=mttC4C6Y4Xo0GyX  
%2FRus2cNIU6yA%3D",  
  "thumbnailFileId": "6",  
  "thumbnailFileName": "20200622_111136_meeting_record.White.jpg",  
  "thumbnailFileSize": 62816,  
  "thumbnailUrl": "https://usg-sss-meeting-file-078bb3cf07ac46bf8b30ae23a0efe047.obs.cn-  
north-4.myhuaweicloud.com:443/8454/80f44a5dbc744804a90e254031285b64/  
c1217acca9c2454ca87649995cfe875d.jpg?  
AccessKeyId=9K64BZ4AQDLZGBBFLMQS&Expires=1619076436&Signature=NFjr33JV6jEEi31Gkk47IGNjigw  
%3D",  
  "topic": "20200622_111136_meeting_record.White"  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: cnrCAod6XrUexF5jUWmyxlyEcRStV8AsLwVI'  
https://api.meeting.huaweicloud.com/v1/usg/sss/meeting-files/31531e3de7904613a2364c9e1df1fe11
```

17 Bulletin Board Management

17.1 Bulletin Board Publication Management

17.1.1 Adding a Bulletin Board Publication

Description

This API is used to add a bulletin board publication.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-1 Prototype

Request Method	POST
Request Address	/v1/usg/sss/publications
Transport Protocol	HTTPS

Request Parameters

Table 17-2 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
deptList	Yes	Array of strings	Body	List of codes of departments that a publication is published to.
deviceList	Yes	Array of strings	Body	List of IDs of devices that the publication is published to.
endTime	Yes	Long	Body	End time.
publishName	Yes	String	Body	Publication name.
startTime	Yes	Long	Body	Start time.
programList	Yes	Array of strings	Body	List of IDs of programs to publish.

Status Codes

Table 17-3 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/publications
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
content-type: application/json
Content-Length: 328
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191))
{
  "deptList": [
    "WCRjbR0Sou"
  ],
  "deviceList": [
    "zZ1vtXD2LS"
  ],
  "endTime": 253402271999000,
  "programList": [
    "7e0fd568a8354b459784ba825ccd5b8c"
  ],
  "publishName": "u0XXszQ9MV",
  "startTime": 0
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: efd3e53b2d9fa554d11267d5d66ca0bf
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token:
cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE' -d '{"deptList":["WCRjbR0Sou"],"deviceList":
["zZ1vtXD2LS"],"endTime":253402271999000,"programList":
{7e0fd568a8354b459784ba825ccd5b8c"},"publishName":"u0XXszQ9MV","startTime":0}'
https://api.meeting.huaweicloud.com/v1/usg/sss/publications
```

17.1.2 Deleting Bulletin Board Publications

Description

This API is used to delete bulletin board publications.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-4 Prototype

Request Method	POST
Request Address	/v1/usg/sss/publications/batch-delete
Transport Protocol	HTTPS

Request Parameters

Table 17-5 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	Publication ID list.

Status Codes

Table 17-6 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/publications/batch-delete
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

[
  "ad0425d1f8c848eab352869b3f2552b8"
]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 539e8b710378987ffc5eb844b5e5c290
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X POST -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE' -d
['ad0425d1f8c848eab352869b3f2552b8']
https://api.meeting.huaweicloud.com/v1/usg/sss/publications/batch-delete
```

17.1.3 Querying Bulletin Board Publications

Description

This API is used to query bulletin board publications.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-7 Prototype

Request Method	GET
Request Address	/v1/usg/sss/publications
Transport Protocol	HTTPS

Request Parameters

Table 17-8 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by name is supported.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 17-9 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.

HTTP Status Code	Description
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 17-10 Response Parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of PublicationResponseBase objects	Publication details.

Table 17-11 PublicationResponseBase data structure

Parameter	Type	Description
createTime	Long	Creation time.
endTime	Long	End time.
id	String	Publication ID.
lastUpdatedBy	String	Updater.
publishName	String	Publication name.
publishScope	String	Publication scope.
publishStatus	String	Publication status on the current time. <ul style="list-style-type: none"> • NOT_ONLINE: to be published. • PUBLISHING: being published. • ALREADY_OFFLINE: removed.
startTime	Long	Start time.
updateTime	Long	Update time.

Example Request

```
GET /v1/usg/sss/publications?offset=0&limit=10&searchKey=  
Connection: keep-alive  
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE  
Content-Type: application/json  
Host: api.meeting.huaweicloud.com  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200  
Date: Wed, 18 Dec 2019 06:20:40 GMT  
Content-Type: application/json;charset=UTF-8  
Content-Length: 1329  
Connection: keep-alive  
Pragma: No-cache  
Cache-Control: no-cache  
Server: api-gateway  
X-Request-Id: 21facce44sd8efa02329afd189da7f3d  
  
{  
  "count": 1,  
  "data": [  
    {  
      "createTime": 1593538236711,  
      "endTime": 253402271999000,  
      "id": "2baafa7ffef04c62a3c3f79f9f8a1a3a",  
      "lastUpdatedBy": "",  
      "publishName": "cCu78RV8Ai",  
      "publishScope": "",  
      "publishStatus": "PUBLISHING",  
      "startTime": 0,  
      "updateTime": 1593538236711  
    }  
  ],  
  "limit": 10,  
  "offset": 0  
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE'  
https://api.meeting.huaweicloud.com/v1/usg/sss/publications?offset=0&limit=10
```

17.1.4 Querying Details of a Publication by ID

Description

This API is used to query details of a publication by ID.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-12 Prototype

Request Method	GET
Request Address	/v1/usg/sss/publications/{id}
Transport Protocol	HTTPS

Request Parameters

Table 17-13 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Publication ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 17-14 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 17-15 Response Parameters

Parameter	Type	Description
createTime	Long	Creation time.
endTime	Long	End time.
id	String	Publication ID.
lastUpdatedBy	String	Updater.
publishName	String	Publication name.
publishScope	String	Publication scope.
publishStatus	String	Publication status on the current time. <ul style="list-style-type: none"> ● NOT_ONLINE: to be published. ● PUBLISHING: being published. ● ALREADY_OFFLINE: removed.
startTime	Long	Start time.
updateTime	Long	Update time.
deptList	Array of PublishDeptResponseDTO objects	List of departments that the publication was published to.
deviceList	Array of PublishDeviceResponseDTO objects	List of devices that the publication was published to.

Parameter	Type	Description
programList	Array of ProgramResponseBase objects	List of published program IDs.

Table 17-16 PublishDeptResponseDTO data structure

Parameter	Type	Description
deptCode	String	Department code.
deptName	String	Department name.

Table 17-17 PublishDeviceResponseDTO data structure

Parameter	Type	Description
deviceName	String	Device name.
deviceId	String	Device user ID.

Table 17-18 ProgramResponseBase data structure

Parameter	Type	Description
id	String	Program ID.
lastUpdatedBy	String	Updater.
materialSizeStr	String	Total size of program materials (including the unit).
playTime	Integer	Total playback duration of a program, in seconds.
programName	String	Program name.
updateTime	Long	Update time.

Example Request

```
GET /v1/usg/sss/publications/bfccb099e6e34dca95f72c1404c68cd9
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
```

```
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 149e8b71037898deffc5e2a44b5e5c230

{
  "id": "bfccb099e6e34dca95f72c1404c68cd9",
  "lastUpdatedBy": "",
  "createTime": 1593538210692,
  "updateTime": 1593538210692,
  "publishName": "NZmsGuY4J6",
  "publishScope": "",
  "startTime": 0,
  "endTime": 253402271999000,
  "publishStatus": "PUBLISHING",
  "programList": [
    {
      "id": "f7350ac9a4aa41beac142dd588f39fbe",
      "lastUpdatedBy": "",
      "updateTime": 1593538210605,
      "programName": "c5bc3AwzNr",
      "materialSizeStr": "462.71KB",
      "playTime": 10
    }
  ],
  "deptList": [
    {
      "deptCode": "SZ1mBIAdBP",
      "deptName": null
    }
  ],
  "deviceList": [
    {
      "deviceUserId": "B6l75EEqjh",
      "deviceName": null
    }
  ]
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE' https://api.meeting.huaweicloud.com/v1/usg/sss/publications/bfccb099e6e34dca95f72c1404c68cd9
```

17.1.5 Modifying a Bulletin Board Publication

Description

This API is used to modify a bulletin board publication.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-19 Prototype

Request Method	PUT
Request Address	/v1/usg/sss/publications/{id}
Transport Protocol	HTTPS

Request Parameters

Table 17-20 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Publication ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
deptList	Yes	Array of strings	Body	List of codes of departments that the publication is published to.
deviceList	Yes	Array of strings	Body	List of IDs of devices that the publication is published to.

Parameter	Mandatory	Type	Location	Description
endTime	Yes	Long	Body	End time.
publishName	Yes	String	Body	Publication name.
startTime	Yes	Long	Body	Start time.
programList	No	Array of strings	Body	List of published program IDs.

Status Codes

Table 17-21 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/sss/publications/ad0425d1f8c848eab352869b3f2552b8
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Content-Type: application/json
Content-Length: 253
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "deptList": [
    "TJmDQT28y"
  ],
  "deviceList": [
    "4LtvhUfmv9"
  ],
  "endTime": 86400000,
  "programList": [
    "bf4df44cb4b44c2980890d391d9be2fa"
  ],
  "publishName": "VyOWbleXuu",
  "startTime": 1000
}
```


Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 749e8b710378987ffc5as844b5e5c250
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:
cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE' -d '{"deptList": ["TJJmDQT28y"],"deviceList":
["4LtvhUfmv9"],"endTime": 86400000,"programList":
["bf4df44cb4b44c2980890d391d9be2fa"],"publishName": "VyOWbleXuu","startTime": 1000}'
https://api.meeting.huaweicloud.com/v1/usg/sss/publications/ad0425d1f8c848eab352869b3f2552b8
```

17.2 Bulletin Board Program Management

17.2.1 Adding a Bulletin Board Program

Description

This API is used to add a bulletin board program.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-22 Prototype

Request Method	POST
Request Address	/v1/usg/sss/programs
Transport Protocol	HTTPS

Request Parameters

Table 17-23 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
programName	Yes	String	Body	Program name.
programItemList	Yes	Array of ProgramItemRequestBase objects	Body	Program material list.

Table 17-24 ProgramItemRequestBase data structure

Parameter	Mandatory	Type	Location	Description
materialId	Yes	String	Body	Material ID.
playTime	Yes	Integer	Body	Playback duration.

Status Codes

Table 17-25 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/programs
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
content-type: application/json
Content-Length: 128
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191))
```

```
{
  "programItemList": [
    {
      "materialId": "dcf8988212414ecba07368ed1d5f8916",
      "playTime": 10
    }
  ],
  "programName": "kY234TVnLL"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: afd3e12b2d9fa554d3526sd5d66ca0sc
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X POST -H 'X-Access-Token: stbH3o4N83uDQPOcFtScKC9nbqCXt3clDB1U' -d '{"programItemList": [{"materialId": "dcf8988212414ecba07368ed1d5f8916","playTime": 10}], "programName": "kY234TVnLL"}' https://api.meeting.huaweicloud.com/v1/usg/sss/programs
```

17.2.2 Deleting Bulletin Board Programs

Description

This API is used to delete bulletin board programs.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-26 Prototype

Request Method	POST
Request Address	/v1/usg/sss/programs/batch-delete
Transport Protocol	HTTPS

Request Parameters

Table 17-27 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.

Parameter	Mandatory	Type	Location	Description
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	Program ID list.

Status Codes

Table 17-28 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/programs/batch-delete
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

[
  "225e913e9c7947f2b10f3c74379403bd",
  "dcf8988212414ecba07368ed1d5f8916"
]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: a39e8s710378987ffc5eb844b5e5c340
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X POST -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmWvj6zScFogbDE' -d
'["ad0425d1f8c848eab352869b3f2552b8","dcf8988212414ecba07368ed1d5f8916"]'
https://api.meeting.huaweicloud.com/v1/usg/sss/programs/batch-delete
```

17.2.3 Querying Bulletin Board Programs

Description

This API is used to query bulletin board programs.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-29 Prototype

Request Method	GET
Request Address	/v1/usg/sss/programs
Transport Protocol	HTTPS

Request Parameters

Table 17-30 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .

Parameter	Mandatory	Type	Location	Description
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by program name and updater is supported.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 17-31 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 17-32 Response Parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of ProgramResponse-Base objects	Program information list.

Table 17-33 ProgramResponseBase data structure

Parameter	Type	Description
id	String	Program ID.
lastUpdatedBy	String	Updater.
materialSizeStr	String	Total size of program materials (including the unit).
playTime	Integer	Total playback duration of a program, in seconds.
programName	String	Program name.
updateTime	Long	Update time.

Example Request

```
GET /v1/usg/sss/programs?offset=0&limit=5&searchKey=
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
```



```
X-Request-Id: a4facce44898sda03629afd189da71df
{
  "count": 1,
  "data": {
    "id": "e36e633ccae4cd0a6ffda6b6a65473c",
    "lastUpdatedBy": "",
    "materialSizeStr": "462.71KB",
    "playTime": 10,
    "programName": "VCpBgDe4IM",
    "updateTime": 1593538222443
  },
  "limit": 5,
  "offset": 0
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE'
https://api.meeting.huaweicloud.com/v1/usg/sss/publications?offset=0&limit=10
```

17.2.4 Querying Program Details by ID

Description

This API is used to query program details by ID.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-34 Prototype

Request Method	GET
Request Address	/v1/usg/sss/programs/{id}
Transport Protocol	HTTPS

Request Parameters

Table 17-35 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Program ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 17-36 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 17-37 Response Parameters

Parameter	Type	Description
id	String	Program ID.
lastUpdatedBy	String	Updater.
materialSizeStr	String	Total size of program materials (including the unit).
playTime	Integer	Total playback duration of a program, in seconds.
programName	String	Program name.
updateTime	Long	Update time.
programItemList	Array of ProgramItemResponseBase objects	Program material list.

Table 17-38 ProgramItemResponseBase data structure

Parameter	Type	Description
filePath	String	Path for downloading a material from Clouddrive.
materialId	String	Material ID.
materialName	String	Material name.
playTime	Integer	Playback duration.

Example Request

```
GET /v1/usg/sss/programs/6cffb6ffbb6049d1b21c1c4e39fcb2e0
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: a69e8b71ds78987ffc5eb844bsd5ca97
{
```

```

    "id": "0b95f012274443a1bb0a223c131284a6",
    "lastUpdatedBy": "",
    "updateTime": 1593538299852,
    "programName": "LhL85eKrB9",
    "materialSizeStr": "462.71KB",
    "playTime": 10,
    "programItemList": [
      {
        "materialId": "c704066824c74dd79afc2e66f433b186",
        "materialName": "20200616165610218test_upload_material",
        "filePath": "https://mock/download-file",
        "playTime": 10
      }
    ]
  }
}

```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE' https://api.meeting.huaweicloud.com/v1/usg/sss/programs/6cffb6ffbb6049d1b21c1c4e39fcb2e0
```

17.2.5 Updating a Bulletin Board Program

Description

This API is used to update a bulletin board program.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-39 Prototype

Request Method	PUT
Request Address	/v1/usg/sss/programs/{id}
Transport Protocol	HTTPS

Request Parameters

Table 17-40 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Program ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
programName	Yes	String	Body	Program name.
programItemList	No	Array of ProgramItemRequestBase objects	Body	Program material list.

Table 17-41 ProgramItemRequestBase data structure

Parameter	Mandatory	Type	Location	Description
materialId	Yes	String	Body	Material ID.
playTime	Yes	Integer	Body	Playback duration.

Status Codes

Table 17-42 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
PUT /v1/usg/sss/programs/6cffb6ffbb6049d1b21c1c4e39fcb2e0
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Content-Type: application/json
Content-Length: 153
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "programItem": [
    {
      "materialId": "bf9cf54f3c7040e787df1ed906d0083c",
      "playTime": 10
    }
  ],
  "programName": "yk02ssUpZt"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: d39e8b7103789sdfcc5eb844b5e5c22b
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token:
cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE' -d '{"programItemList": [{"materialId":
"bf9cf54f3c7040e787df1ed906d0083c","playTime": 10}], "programName": "yk02ssUpZt"}'
https://api.meeting.huaweicloud.com/v1/usg/sss/programs/6cffb6ffbb6049d1b21c1c4e39fcb2e0
```

17.3 Bulletin Board Material Management

17.3.1 Adding a Bulletin Board Material

Description

This API is used to add a bulletin board material (upload a material file).

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-43 Prototype

Request Method	POST
Request Address	/v1/usg/sss/materials
Transport Protocol	HTTPS

Request Parameters

Table 17-44 Parameters

Parameter	Mandator y	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .

Parameter	Mandatory	Type	Location	Description
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
file	Yes	file	FormData	Material file. <ul style="list-style-type: none"> Only JPG, JPEG, and PNG files can be uploaded. The resolution ratio is 16:9. The maximum resolution is 3840 x 2160 pixels (recommended). Name the image before uploading it.

Status Codes

Table 17-45 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/materials
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
content-type: multipart/form-data;
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191))
```

Example Response

```
HTTP/1.1 200
Date: Mon, 13 Jul 2020 02:20:32 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 5032547386ab1e2e6a24842e9e1abea9
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: multipart/form-data' -X POST -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE' -F 'file=@c:/Users/Administrator/Desktop/test.png' https://api.meeting.huaweicloud.com/v1/usg/sss/materials
```

17.3.2 Deleting Bulletin Board Materials

Description

This API is used to delete bulletin board materials.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-46 Prototype

Request Method	POST
Request Address	/v1/usg/sss/materials/batch-delete
Transport Protocol	HTTPS

Request Parameters

Table 17-47 Parameters

Parameter	Mandatory	Type	Location	Description
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
[Array element]	Yes	Array of strings	Body	Material ID list.

Status Codes

Table 17-48 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Response Parameters

None

Example Request

```
POST /v1/usg/sss/materials/batch-delete
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

[
  "aa325ddb930f4fbe91c3d5a2e345bbb4",
  "b232a0ffa40443a1a8ff15808ab69bas"
]
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: 429e8b7103789dcffc5eb844b5e5c270
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X POST -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE' -d '0["aa325ddb930f4fbe91c3d5a2e345bbb4","b232a0ffa40443a1a8ff15808ab69bas"]' https://api.meeting.huaweicloud.com/v1/usg/sss/materials/batch-delete
```

17.3.3 Querying Bulletin Board Materials in Pages

Description

This API is used to query bulletin board materials in pages.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-49 Prototype

Request Method	GET
Request Address	/v1/usg/sss/materials
Transport Protocol	HTTPS

Request Parameters

Table 17-50 Parameters

Parameter	Mandatory	Type	Location	Description
offset	No	Integer	Query	Query offset. If the value exceeds the maximum number of records available, records on the last page are returned. Default value: 0 .
limit	No	Integer	Query	Number of records to query. Default value: 10 .
searchKey	No	String	Query	Search criteria. Fuzzy search by material name and updater is supported.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.

Status Codes

Table 17-51 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.

HTTP Status Code	Description
403	Insufficient permissions.
500	Server exception.

Response Parameters

Table 17-52 Response Parameters

Parameter	Type	Description
count	Integer	Total number of records.
limit	Integer	Number of records displayed per page. Default value: 10 .
offset	Integer	Number of the query start page. The value starts from 0 .
data	Array of Material objects	Material details.

Table 17-53 Material data structure

Parameter	Type	Description
filePath	String	URL for downloading the material from Clouddrive.
id	String	Material ID.
lastUpdatedBy	String	Updater.
materialName	String	Material name.
materialResolution	String	Material resolution.
materialSizeStr	String	Material size (including the unit).
updateTime	Long	Update time.

Example Request

```
GET /v1/usg/sss/materials?offset=0&limit=5&searchKey=
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Content-Type: application/json
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Content-Length: 1329
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: b4facce44898efa03629afd189da7f5f

{
  "count": 1,
  "data": [
    {
      "filePath": "https://mock/download-file",
      "id": "835fe0052b2b4cc0ae1704fddad9e683",
      "lastUpdatedBy": "",
      "materialName": "test",
      "materialResolution": "",
      "materialSizeStr": "462.71KB",
      "updateTime": "1551755880176"
    }
  ],
  "limit": 5,
  "offset": 0
}
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -X GET -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfmwVjJ6zScFogbDE'
https://api.meeting.huaweicloud.com/v1/usg/sss/materials?offset=0&limit=5
```

17.3.4 Updating a Bulletin Board Material

Description

This API is used to update a bulletin board material.

Debugging

You can debug this API in [API Explorer](#).

Prototype

Table 17-54 Prototype

Request Method	PUT
Request Address	/v1/usg/sss/materials/{id}

Transport Protocol	HTTPS
---------------------------	-------

Request Parameters

Table 17-55 Parameters

Parameter	Mandatory	Type	Location	Description
id	Yes	String	Path	Material ID.
X-Access-Token	Yes	String	Header	Authorization token. Use the value of accessToken in the response to the request for Authenticating an App ID .
X-Request-Id	No	String	Header	Request ID, which is used for fault tracing and locating. You are advised to use a UUID. If this parameter is not carried, a request ID is automatically generated.
Accept-Language	No	String	Header	Language. Values: zh-CN for Chinese (default) and en-US for English.
materialName	No	String	Body	Material name.

Status Codes

Table 17-56 Status codes

HTTP Status Code	Description
200	Operation successful.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.

HTTP Status Code	Description
500	Server exception.

Response Parameters

Table 17-57 Status codes

Status Code	Description
200	OK.
400	Invalid parameters.
401	Authentication is not performed or fails.
403	Insufficient permissions.
500	Server exception.

Example Request

```
PUT /v1/usg/sss/materials/835fe0052b2b4cc0ae1704fddad9e683
Connection: keep-alive
X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE
Content-Type: application/json
Content-Length: 153
Host: api.meeting.huaweicloud.com
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0_191)

{
  "materialName": "updateMaterial"
}
```

Example Response

```
HTTP/1.1 200
Date: Wed, 18 Dec 2019 06:20:40 GMT
Content-Type: application/json;charset=UTF-8
Connection: keep-alive
Pragma: No-cache
Cache-Control: no-cache
Server: api-gateway
X-Request-Id: dc9e8b710378987ffc5eb844b6e5c301
```

Error Codes

If an error code starting with **MMC** or **USG** is returned when you use this API, rectify the fault by following the instructions provided in [Huawei Cloud API Error Center](#).

Example cURL Command

```
curl -k -i -H 'content-type: application/json' -X PUT -H 'X-Access-Token: cnrfzn5OLRjwoaOf2F7PfMwVjJ6zScFogbDE' -d '{"materialName": "updateMaterial"}' https://api.meeting.huaweicloud.com/v1/usg/sss/materials/835fe0052b2b4cc0ae1704fddad9e683
```


18 Error Codes

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to the instructions provided in [Error Codes](#).

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111114041	USER_HAS_NO_RECORD_PERMISSION	The user does not have the recording permission.	Contact the enterprise administrator to check whether the user has the recording permission.
400	MMC.111070001	CONF_BAD_REQUEST	Request error.	Check whether the request data is correct.
400	MMC.111070005	CONF_DATA_NOT_FOUND	The meeting does not exist.	Check whether the meeting ID is correct or whether the meeting has been held.
400	MMC.111070006	VMR_DATA_NOT_FOUND	Personal cloud meeting room not found.	Check whether the personal cloud meeting room exists.
400	MMC.111070007	ACCESS_NUMBER_NOT_FOUND	Meeting access number not found.	Check whether the entered access number is correct.
400	MMC.111070009	CONF_AUTHEN_NEED_PASSWORD	The meeting password cannot be empty.	Enter the correct password as prompted.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111070111	REQUEST_TO_KEN_IS_NULL	The request token is empty.	Check whether the request contains an authentication token.
400	MMC.111071003	CONF_ID_NOT_EXIST	Create meeting failed. Try again later.	Check the request parameters.
400	MMC.111071010	CONF_MODIFY_VMR_FLAG_FAIL	The cloud meeting room ID cannot be modified.	Check the parameters.
400	MMC.111071013	CONF_START_TIME_LESS_THAN_CURRENT_TIME	The meeting start time cannot be earlier than the current system time.	Check whether the start time is earlier than the current time.
400	MMC.111071014	CONF_START_TIME_OVER_MAX_SCHEDULE_TIME	The start time exceeds the allowed range.	Check whether the start time of the scheduled meeting is later than the time allowed by the system.
400	MMC.111071016	CONF_PARAMS_NULL_EXCEPTION	The list of IDs of recurring meetings to be canceled cannot be empty.	Check the request parameters.
400	MMC.111071020	CONF_CYCLE_PARAMS_NULL_EXCEPTION	Recurring meeting parameters must be carried for a recurring meeting.	Check the request parameters.
400	MMC.111071024	CONF_EMAIL_ILLEGAL	Invalid email address.	Check the request parameters.
400	MMC.111071025	CONF_SMS_ILLEGAL	Invalid mobile number.	Check the request parameters.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111071026	CONF_DEPTNAME_TOO_LONG	Department name too long.	Check the request parameters.
400	MMC.111071041	CONF_CYCLE_PARAMS_STARTDATE_NULL	The start date of the recurring meeting is empty.	Check the request parameters.
400	MMC.111071042	CONF_CYCLE_PARAMS_END_DATE_NULL	The end date of the recurring meeting is empty.	Check the request parameters.
400	MMC.111071043	CONF_CYCLE_PARAMS_CYCLE_ILLEGAL	Invalid period type for a recurring meeting.	Check the request parameters.
400	MMC.111071044	CONF_CYCLE_PARAMS_INTERVAL_NOT_IN_RANGE	Invalid interval for a recurring meeting.	Check the request parameters.
400	MMC.111071045	CONF_CYCLE_PARAMS_POINT_NULL_EXCEPTION	The point parameter for a recurring meeting is empty.	Check the request parameters.
400	MMC.111071046	CONF_CYCLE_PARAMS_POINT_NOT_IN_RANGE	Invalid point for a recurring meeting.	Check the request parameters.
400	MMC.111071058	VMR_NOT_ALLOWED_GUEST_FIRST_JOIN	The meeting has not started.	Join the meeting after it starts.
400	MMC.111071059	CONF_SIZE_OVER_COMMUNAL_VMR_MAXNUM	The number of participants exceeds the upper limit.	Purchase a cloud meeting room with a larger number of participants or remove some participants in the meeting.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111071060	ORG_CONCURRENT_PARTICIPANTS_NUMBER_IS_ZERO	The enterprise lacks concurrent participant resources. You cannot use the personal meeting ID or a random meeting ID to start a meeting.	Purchase concurrent participant resources and try again.
400	MMC.111071061	PARAMETER_VERIFIED_FAILED	Parameter verification failed.	Check the request parameters.
400	MMC.111071062	JSON_CONVERSION_FAILED	JSON conversion failed.	Check the request parameters.
400	MMC.111071063	CONF_USER_NOT_VMR_OWNER	The user is not the owner of the cloud meeting room.	Check whether the cloud meeting room has been allocated to the user.
400	MMC.111071065	CONF_MODIFY_FAIL_AS_CONF_ALREADY_STARTED	The meeting is in progress. Its information cannot be edited.	Check whether the meeting is in progress.
400	MMC.111071066	CONF_ATTENDEES_NUMBER_EXCEED_LIMIT	The number of participants exceeds the upper limit.	Check whether the number of participants exceeds the upper limit.
400	MMC.111071067	CONF_CANCEL_FAIL_AS_CONF_STARTED	The meeting is in progress and cannot be canceled.	Check whether the meeting is in progress.
400	MMC.111071069	CONF_NOCONF_IN_SELECTED_TIME	No meeting in your selected time.	Check the request parameters.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111071070	SUB_CYCCONF_CANNOT_MODIFY_LIVE_ROOM	The live broadcast room cannot be changed for a recurring meeting.	Check the request parameters.
400	MMC.111071072	CONF_CLOSED_RECENTLY	The meeting has ended.	Check whether the meeting has ended.
400	MMC.111071073	CONF_NOT_ALLOWED_ANONYMOUS	Anonymous users are not allowed to join the meeting.	Check the scope of users allowed to join the meeting.
400	MMC.111071074	CONF_ONLY_ALLOWED_USER_IN_ORG	Only corporate users are allowed to join the meeting.	Check the scope of users allowed to join the meeting.
400	MMC.111071075	CONF_ONLY_ALLOWED_USER_INVITED	Only invited users are allowed to join the meeting.	Check the scope of users allowed to join the meeting.
400	MMC.111071082	CONF_NUM_UP_TO_LIMIT	Each enterprise using the free edition can create up to 20 meetings every day and this limit has been reached. Paid enterprises do not have such constraint.	Upgrade your enterprise account or create the meeting the next day.
400	MMC.111071119	SUB_CYCCONF_MODIFY_TIME_OVER_RANGE	The new time of the recurring meeting is invalid.	Check the request parameters.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111071121	WEBHOOK_CONFIG_ENABLE_FAILED	Failed to enable the enterprise-level meeting event subscription configuration.	Check whether the subscription address and network are normal.
400	MMC.111072003	CONF_IS_CLOSING	The meeting is ending.	Please wait.
400	MMC.111072005	CONF_NOT_STARTED	The meeting has not started.	Check whether the meeting has started.
400	MMC.111072006	CONF_IS_CLOSED	The meeting has ended.	Check whether the meeting ID is correct.
400	MMC.111072020	CONF_NOT_SUPPORT_RECORD	The current meeting cannot be recorded.	Check whether the meeting can be recorded.
400	MMC.111072023	CONF_NOT_HAVE_PART	No participant exists in the meeting.	Ensure that at least one participant has joined the meeting.
400	MMC.111072024	CONF_NO_PARTICIPANT_JOINED	Ensure that at least one participant has joined the meeting.	Ensure that at least one participant has joined the meeting.
400	MMC.111072025	AUDIO_CONF_NOT_SUPPORT	Voice meetings do not support this function.	Check whether the meeting is a voice meeting.
400	MMC.111072026	AUDIO_SITE_NOT_SUPPORT	Voice-only participants do not support this operation.	Check whether the participant is a voice-only participant.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111072027	AUDIO_SITE_IN_MULTI_PIC	Voice-only participants cannot be displayed in the manually set continuous presence.	Check whether the manually set continuous presence contains voice-only participants. If yes, remove them.
400	MMC.111072028	NO_SITE_IN_MULTI_PIC	At least one participant must be set in the manually set continuous presence.	Check whether there is no participant in the manually set continuous presence.
400	MMC.111072029	ASSISTANT_PIC_NUM_MORE_THAN_ONE	At most one presentation screen is allowed in the manually set continuous presence.	Check whether the manually set continuous presence contains multiple presentation screens.
400	MMC.111072031	PARAM_ERROR	The called number, mobile number, and email address of the participant cannot be all empty.	Check the request parameters.
400	MMC.111072032	PARAM_ERROR	The length of the participant number exceeds the maximum (127 characters).	Check the request parameters.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111072033	PARAM_ERROR	The format of the participant number is invalid. (SIP and tel number formats are supported.)	Check the request parameters.
400	MMC.111072034	PARAM_ERROR	The length of the participant name exceeds the maximum (96 characters).	Check the request parameters.
400	MMC.111072035	PARAM_ERROR	The participant role type is beyond the allowed range [0,2].	Check the request parameters.
400	MMC.111072038	PARAM_ERROR	The value of whether to mute a participant after the participant joins the meeting is beyond the allowed range [0,1].	Check the request parameters.
400	MMC.111072039	PARAM_ERROR	The value of whether to automatically invite participants is beyond the allowed range [0,1].	Check the request parameters.
400	MMC.111072040	PARAM_ERROR	The host view type is beyond the allowed range [0,2].	Check the request parameters.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111072041	PARAM_ERROR	The continuous presence mode is beyond the allowed range [0,1].	Check the request parameters.
400	MMC.111072042	PARAM_ERROR	The value of the duration for displaying participants in turn is beyond the allowed range [10,120].	Check the request parameters.
400	MMC.111072043	PARAM_ERROR	The screen type cannot be empty.	Check the request parameters.
400	MMC.111072044	PARAM_ERROR	Invalid screen type.	Check the request parameters.
400	MMC.111072045	PARAM_ERROR	The value of the switch item is beyond the allowed range [0,1].	Check the request parameters.
400	MMC.111072046	PARAM_ERROR	The participant name cannot be empty.	Check the request parameters.
400	MMC.111072047	PARAM_ERROR	The length of the participant name exceeds the maximum (64 characters).	Check the request parameters.
400	MMC.111072049	RESPONSE_TIMEOUT	Response times out. Try again.	Server processing timed out. Try again or contact the SRE.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111072050	CONF_LOCKED	The meeting is locked.	The meeting has been locked. Contact the meeting host to unlock it.
400	MMC.111072054	PARAM_ERROR	The banner or caption type is empty.	Check the request parameters.
400	MMC.111072055	PARAM_ERROR	The banner or caption content is empty.	Check the request parameters.
400	MMC.111072056	PARAM_ERROR	The banner or caption content contains more than 2,000 bytes.	Check the request parameters.
400	MMC.111072057	CONF_BAD_REQUEST	Empty request body.	Check the request parameters.
400	MMC.111072058	PARAM_ERROR	The screen index is greater than the total number of screens.	Check the request parameters.
400	MMC.111072059	CONF_NO_CHAIR_SITE	The meeting does not have a host.	Check whether the meeting has a host.
400	MMC.111072060	NORMAL_SITTING_NOT_SUPPORTED_VIEW	Common participants do not support this operation.	This operation is supported only for specific types of participants. For details, contact the SRE.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111072061	CHAIR_POLLING_FORBIDDEN_VIEW	The host is viewing participants in turn and cannot be set to view a specific participant or continuous presence.	Stop participant display in turn for the host first.
400	MMC.111072062	SVC_SITE_NOT_SUPPORT_VIEW	The host type does not support this operation.	This operation is supported only for specific types of participants. For details, contact the SRE.
400	MMC.111072065	CONF_NOT_FOUND_OR_AUTH_FAILED	The meeting ID does not exist or the password is incorrect. Check your input and try again.	Enter the correct meeting ID or password.
400	MMC.111072066	ORG_NOT_BUY_RECSPACE	The enterprise has not purchased recording storage space.	Purchase recording storage space before enabling recording.
400	MMC.111072069	CONF_CHAIR_FORBIDDEN_HAND	The host is not allowed to raise hands to speak.	Check whether the operation is performed on the host.
400	MMC.111072070	GUEST_NO_PERMISSION_OPERATION	Guests are not allowed to perform this operation.	Perform the operation as the host.
400	MMC.111072071	NO_PERMISSION_OPERATE_OTHERS	You can perform this operation only on yourself.	Perform the operation as the host.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111072074	TRUNK_APPLY_CHAIR_FORBID	An on-premises participant cannot be the host.	An on-premises participant cannot be the host in a cloud and on-premises collaborative meeting.
400	MMC.111072075	HUNG_UP_REASON	The meeting ends. The participant is disconnected.	The meeting ends. The participant is disconnected.
400	MMC.111072076	HUNG_UP_REASON	The participant is disconnected by the host.	The participant is disconnected by the host.
400	MMC.111072077	HUNG_UP_REASON	The meeting is deleted by the host. The participant is disconnected.	The meeting is deleted by the host. The participant is disconnected.
400	MMC.111072078	HUNG_UP_REASON	The meeting is re-created. The participant is disconnected.	The meeting is re-created. The participant is disconnected.
400	MMC.111072079	HUNG_UP_REASON	Failed to move the participant. The participant is disconnected.	Failed to move the participant. The participant is disconnected.
400	MMC.111072080	HUNG_UP_REASON	Failed to invite the participant across regions. The participant is disconnected.	Failed to invite the participant across regions. The participant is disconnected.
400	MMC.111072081	HUNG_UP_REASON	Failed to invite the participant. The participant is disconnected.	Failed to invite the participant. The participant is disconnected.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111072114	PARTICIPANT_NOT_SUPPORTED_CLOSE_VIDEO	The client version is too early and does not allow the host to disable the camera.	Upgrade the client to the latest version and try again.
400	MMC.111072116	PARTICIPANT_NOT_SUPPORTED_INVITE_OPEN_VIDEO	The client version is too early. The host cannot invite participants to enable the camera.	Upgrade the client to the latest version and try again.
400	MMC.111073001	USER_DATA_USER_INFO_NOT_EXIST	User not found.	Check whether the user information is correct.
400	MMC.111073003	USER_DATA_USER_INFO_ILLEGAL	Query user information failed.	Check whether the user information is correct.
400	MMC.111074001	IDO_CONF_HOST_ALREADY_EXIST	The host already exists.	The meeting already has a host. To apply to be a host, release the current host first.
400	MMC.111074003	IDO_OVER_CONF_MAX_DURATION	Failed to extend the meeting. The meeting duration has reached the maximum.	The meeting duration has reached the maximum and cannot be longer.
400	MMC.111076001	INVITE_FAILED_REASON	The participant is disconnected by the host on the device.	The participant is disconnected by the host on the device.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111076002	HANGUP_BY_HOST	The participant is disconnected by the administrator on the soft client.	The participant is disconnected by the administrator on the soft client.
400	MMC.111076003	INVITE_FAILED_REASON	The maximum number of participants in the cloud meeting room has been reached.	Failed to invite the participant because the maximum number of participants in the cloud meeting room has been reached.
400	MMC.111076004	INVITE_FAILED_REASON	The number of concurrent participants in the enterprise is insufficient.	Failed to invite the participant because the number of concurrent participants is insufficient.
400	MMC.111076005	INVITE_FAILED_REASON	The participant does not respond.	Failed to invite the participant because the participant does not respond.
400	MMC.111076006	INVITE_FAILED_REASON	The participant does not exist.	Failed to invite the participant because the participant does not exist.
400	MMC.111076007	INVITE_FAILED_REASON	The participant is offline.	Failed to invite the participant because the participant is offline.
400	MMC.111076008	INVITE_FAILED_REASON	The participant is busy.	Failed to invite the participant because the participant is busy.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111076009	INVITE_FAILED_REASON	The participant rejects the call.	Failed to invite the participant because the participant rejects the call.
400	MMC.111076010	INVITE_FAILED_REASON	The participant disconnects the call.	Failed to invite the participant because the participant disconnects the call.
400	MMC.111076011	INVITE_FAILED_REASON	Media resources are insufficient.	Failed to invite the participant because the media resources are insufficient.
400	MMC.111076012	INVITE_FAILED_REASON	The PSTN service is not enabled.	Failed to invite the participant because the PSTN service is not enabled.
400	MMC.111076014	CONF_PARTICIPANT_TIMEOUT	The SIP call timed out.	Failed to invite the participant because the SIP call timed out.
400	MMC.111076016	PARTICIPANT_HANGUP_BY_PORTAL	The participant is disconnected by the meeting administrator on the Management Platform.	Failed to invite the participant because the participant is disconnected by the meeting administrator on the Management Platform.
400	MMC.111080001	CONF_BAD_REQUEST	Incorrect parameters in the request message.	Check the request parameters.
400	MMC.111080004	PARTICIPANT_DATA_NOT_FOUND	The participant does not exist or has been deleted.	Check whether the participant has left the meeting.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.111081001	PARTICIPANT_IS_INVITING	The participant is in a call.	Check whether the participant is already in a meeting.
400	MMC.111081002	PARTICIPANT_CONF_NOT_EXIST	The meeting to which the participant belongs does not exist or has already ended.	Check whether the meeting has already ended.
400	MMC.111081006	PARTICIPANT_AUTHENTICATION_FAILED	Authorization failed.	Check whether the token is valid. Use a valid token and try again.
400	MMC.111081007	PARTICIPANT_CONF_IS_LOCKED	The meeting has been locked.	The meeting has been locked. Contact the meeting host to unlock it.
400	MMC.115022000	LOGIC_RES_NOT_ENOUGH	Insufficient meeting resources in the enterprise.	Check the resource usage on the enterprise overview page.
400	MMC.115022001	LOGICRES_PNUM_RESOURCE_NOT_ENOUGH	Insufficient meeting resources in the enterprise.	Check the resource usage on the enterprise overview page.
400	MMC.115022003	LOGICRES_LSNUM_RESOURCE_NOT_ENOUGH	Insufficient meeting resources in the enterprise.	Check the resource usage on the enterprise overview page.
400	MMC.115025001	LIVE_ROOM_IN_USE	The live broadcast room is in use.	Select another one in advanced settings on the meeting creation page.

Status Code	Error Code	Error Message	Description	Solution
400	MMC.115025002	LIVE_ROOM_NOT_EXIST	The live broadcast room has been deleted. Select another one.	Select another one in advanced settings on the meeting creation page.
400	MMC.118000001	USER_TOKEN_AUTH_FAILED	Session timed out. Log in again.	Check the value of the request header X-Auth-Token .
400	USG.000000003	The server is busy.	Invalid request parameter.	Check the request parameters.
400	USG.000000004	Session timed out. Log in again.	Invalid request.	Check the value of the request header X-Auth-Token or X-Access-Token .
400	USG.201000004	Data does not exist.	The ID or entity is empty.	Check the request parameters.
400	USG.201000005	Data does not exist.	Data does not exist.	Check the parameters.
400	USG.201000006	The country code of the mobile number is incorrect.	The country code of the mobile number is incorrect.	Enter the correct country code of the mobile number.
400	USG.201000007	The email address cannot be empty.	The email address cannot be empty.	Enter a valid email address.
400	USG.201000008	The email address and mobile number cannot be both empty.	The email address and mobile number cannot be both empty.	Enter the email address or mobile number or both.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201000020	Failed to connect to the PushCenter. Check the parameter settings.	Failed to connect to the PushCenter. Check the parameter settings.	Check whether the Push gateway address is correct.
400	USG.201000021	Updating SP or enterprise resources... Please try again later.	Updating SP or enterprise resources... Try again later.	Wait for 5 minutes and try again.
400	USG.201000039	The text contains sensitive words.	The text content contains sensitive words.	Modify the text content.
400	USG.201010000	The SP does not exist.	SP not found.	Check the request parameters.
400	USG.201010001	The SP name already exists.	The SP name is in use.	Use another SP name.
400	USG.201010002	The SP domain name already exists.	The SP domain name is in use.	Use another SP domain name.
400	USG.201010003	The tenant ID already exists.	The tenant ID is in use.	Use another tenant ID and try again.
400	USG.201010004	The SP has enterprises and cannot be deleted.	The SP has enterprises and cannot be deleted.	Delete the enterprises under the SP and try again.
400	USG.201010005	The maximum number of enterprises cannot be less than the number of enterprises created under the SP.	The maximum number of enterprises cannot be less than the number of enterprises created under the SP.	Ensure that the maximum number of enterprises is greater than or equal to the number of enterprises created under the SP.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201010007	The number of SP resources must be at least the total number of resources of enterprises managed by the SP.	The number of SP resources cannot be less than the total number of resources of enterprises managed under the SP.	Ensure that the number of SP resources is greater than or equal to the total number of resources of enterprises managed under the SP.
400	USG.201020000	The enterprise does not exist.	Enterprise not found.	Check the request parameters.
400	USG.201020001	The enterprise name exists.	The enterprise name is in use.	Use another enterprise name.
400	USG.201020002	The enterprise domain name already exists.	The enterprise domain name is in use.	Use another enterprise domain name.
400	USG.201020003	The tenant ID already exists.	The tenant ID is in use.	Use another tenant ID and try again.
400	USG.201020004	The total number of meeting resources allocated to the enterprise exceeds the number of meeting resources that you have purchased. Check the number of meeting resources allocated to the enterprise.	The total number of meeting resources allocated to the enterprise exceeds the number of meeting resources that you have purchased.	Check the number of meeting resources allocated to the enterprise.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201020006	The number of enterprises that you can create has exceeded the maximum. If necessary, go to Huawei Cloud Meeting to purchase more resources.	The number of enterprises that you can create has reached the maximum.	Purchase more resources on the Huawei Cloud official website and try again.
400	USG.201020007	The enterprise has users or terminals and cannot be deleted.	The enterprise has users or terminals and cannot be deleted.	Delete users and terminals from the enterprise and try again.
400	USG.201020008	The number of enterprises exceeds the maximum.	The number of enterprises exceeds the maximum.	Remove some enterprises.
400	USG.201020011	The number of sensitive words exceeds the maximum.	The number of sensitive words exceeds the maximum.	Remove some sensitive words.
400	USG.201030000	The department does not exist.	Department not found.	Check whether the entered department exists.
400	USG.201030001	The same-level department name exists.	The department name is in use in the same level.	Use another department name or change the upper-level department.
400	USG.201030003	The department level exceeds the maximum.	The department level has exceeded the maximum allowed limit.	Check the department level.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201030004	The upper-level department cannot be its subdepartment or itself.	The upper-level department cannot be its subdepartment or itself.	Check whether the parent department ID is correct.
400	USG.201030005	The department contains users or hard terminals and cannot be deleted.	The department contains users or hard terminals and cannot be deleted.	Delete all users and hard terminals in the department or move them to another department.
400	USG.201030006	The top-level department cannot be deleted.	The root department cannot be deleted.	Check the ID of the department to be deleted.
400	USG.201030007	The number of subdepartments exceeds the maximum.	The number of subdepartments of the department exceeds the maximum.	Delete unnecessary departments at the same level.
400	USG.201030008	The departments of the same ID exist in an enterprise.	The department ID is in use in the enterprise.	Use another department ID.
400	USG.201030009	The list of departments specified to be accessible is empty or some departments do not exist.	The specified accessible department list is empty or some departments do not exist.	Check the request parameters.
400	USG.201040000	The user does not exist.	User not found.	Check the request parameters.
400	USG.201040001	The account already exists.	The account is in use.	Use another account.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201040002	The user email address and mobile number cannot be empty.	The user's email address and mobile number cannot be both empty.	Enter the email address or mobile number or both.
400	USG.201040003	The number of cloud meeting rooms allocated to the user exceeds the upper limit.	Only common users can be set as enterprise administrators.	Check the input parameters.
400	USG.201040004	Do not delete the default administrator.	The default administrator cannot be deleted.	Check the user account to be deleted.
400	USG.201040005	The number of users exceeds the upper limit. Check the user quantity allowed by the resources you have purchased.	The number of users has exceeded the upper limit. Check the user quantity allowed by the resources you have purchased.	Contact Huawei sales personnel to increase the enterprise user quota.
400	USG.201040006	The account is not a common enterprise user.	The account is not a common enterprise member or hard terminal user.	Check the user account.
400	USG.201040007	Incorrect verification code.	Verification failed.	Check the verification code.
400	USG.201040008	You are not an administrator.	The account is not an administrator account.	Use an enterprise administrator account.
400	USG.201040009	The user does not exist.	User not found.	Check the user account.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201040011	The verification code has been sent. Please try again later.	The verification code has been sent. Try again later.	The verification code has been sent. Try again later.
400	USG.201040013	Authentication timed out. Go back to the previous step to verify your identity using your mobile number or email address.	Authentication timed out. Go back to the previous step to verify your identity using your mobile number or email address.	Verify your identity again in 3 minutes.
400	USG.201040014	This user is not allowed to delete.	The user cannot be deleted.	Do not delete the user.
400	USG.201040015	The email address cannot be empty.	The email address cannot be empty.	Enter a valid email address.
400	USG.201040016	Weak password. Use another password.	Weak password. Use another password.	Use a more secure password as required.
400	USG.201040017	The user ID already exists.	The user ID is in use.	Use another user ID.
400	USG.201040018	Max SmartRooms access accounts reached. Check meeting resource quotas.	The number of whiteboard access accounts has reached the upper limit.	Check the meeting resources purchased by your enterprise.
400	USG.201040019	The number of users registered free of charge has reached the upper limit.	The number of free registered users has reached the upper limit.	Purchase commercial enterprise resources and try again.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201040020	The email address or mobile number already exists.	The email address or mobile number is in use.	Use another email address or mobile number.
400	USG.201040021	The third-party account already exists.	The third-party account is in use.	Use another third-party account.
400	USG.201040024	This user is not a standard enterprise user.	The user is not a standard user.	Check the user account.
400	USG.201040025	Incorrect country code.	The country code of the mobile number is incorrect.	Enter the correct country code of the mobile number.
400	USG.201040026	Email address must be specified.	The email address cannot be empty.	Enter a valid email address.
400	USG.201040027	Either email address or mobile number must be specified.	The email address and mobile number cannot be both empty.	Enter the mobile number or email address or both.
400	USG.201050000	The device does not exist.	Device not found.	Check the request parameters.
400	USG.201050001	The SN already exists.	The SN is in use.	Use another device SN.
400	USG.201050002	The device name already exists.	The device name is in use.	Use another device name.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201050003	The administrator mobile number and email address of the device that supports the activation code cannot be empty at the same time.	The administrator mobile number and email address of the device that supports the activation code cannot be both empty.	Enter the administrator mobile number or email address or both.
400	USG.201050004	The device type does not support the activation code.	Devices of this type do not support activation codes.	Check the type of the device to be activated.
400	USG.201050005	The number of terminals exceeds the upper limit. Check the purchased hard terminal resources.	The number of terminals has exceeded the upper limit.	Check the purchased hard terminal resources.
400	USG.201050006	The hard terminal cannot be activated because the purchased hard terminal resources are insufficient.	The hard terminal cannot be activated because the purchased hard terminal resources are insufficient.	Check the purchased hard terminal resources.
400	USG.201050007	The terminal type is currently unsupported. Check the system configuration.	The terminal type is not supported. Check the system configuration.	Check the terminal type.
400	USG.201050008	The device model does not support projection codes.	The device model does not support projection codes.	Use a device model that supports projection codes and try again.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201050009	The projection code generation mode must be configured for the device model.	The projection code generation mode must be configured for devices of this model.	Configure a projection code generation mode for devices of this model and try again.
400	USG.201050010	The number of device activation code reset times in a day has reached the maximum (5).	The number of device activation code reset times in a day has reached the maximum (5).	Try again 24 hours later.
400	USG.201060000	The meeting access number does not exist.	Meeting access number not found.	Check the entered meeting access number.
400	USG.201060001	The meeting type does not match the authentication type.	The meeting type does not match the authentication type.	Check the request parameters.
400	USG.201060002	The meeting access number already exists. Please check and try again.	The meeting access number already exists. Check and try again.	Check the request parameters.
400	USG.201060003	The meeting access number cannot be a prefix. For example, if the access number +86571 exists, the new access number cannot be +8657 or +865711.	The meeting access number cannot be a prefix. For example, if the access number +86571 exists, the new access number cannot be +8657 or +865711.	Do not use the meeting access number as the prefix.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201060004	The meeting access number already exists.	The meeting access number already exists.	Use another meeting access number and try again.
400	USG.201060005	The meeting access number does not belong to the SP.	The meeting access number does not belong to the SP.	Check the request parameters.
400	USG.201060007	Deletion failed. The meeting access number has been allocated to the SP. Recycle the meeting access number before deleting it.	Deletion failed. The meeting access number has been allocated to the SP.	Reclaim the meeting access number before deleting it.
400	USG.201060008	Modification failed. An existing meeting access number uses the number prefix.	Modification failed. An existing meeting access number uses the number prefix.	Delete the meeting access number that uses the number prefix and try again.
400	USG.201060009	The meeting access number does not match the prefix.	The meeting access number does not match the prefix.	Check the request parameters.
400	USG.201070000	The number pool does not exist.	Number pool not found.	Check the request parameters.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201070001	The length of the start number is different from that of the end number, or the start number is greater than the end number.	The length of the start number is different from that of the end number, or the start number is greater than the end number.	Ensure that the length of the start number is the same as that of the end number.
400	USG.201070002	Duplicate number. Check the number segment.	Some numbers in the new number segment are the same as those in the existing number segment.	Check the number segments.
400	USG.201070003	The number segment has been used by an enterprise and cannot be modified or deleted.	The number segment has been used by an enterprise and cannot be modified or deleted.	Use another number segment.
400	USG.201070004	No available number.	No idle number in the system.	Try again later.
400	USG.201070010	Modification failed. An existing number segment uses the number prefix.	Modification failed. An existing number segment uses the number prefix.	Delete the number segment that uses the number prefix or use another number prefix.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201070011	The start number or end number does not match the number prefix or is the same as the number prefix.	The start number or end number does not match the number prefix or is the same as the number prefix.	Ensure that the start number or end number matches the number prefix and is different from the number prefix.
400	USG.201080000	The cloud meeting room does not exist.	Cloud meeting room not found.	Check the request parameters.
400	USG.201080001	Failed to enable the dedicated cloud meeting room. Check the purchased dedicated cloud meeting room package resources.	Enable cloud meeting room failed.	Check the purchased cloud meeting room packages.
400	USG.201080002	The personal cloud meeting room ID has been allocated. Refresh the page and try again.	The personal meeting ID has been allocated. Refresh the page and try again.	Use another personal meeting ID.
400	USG.201080003	The dedicated cloud meeting room ID does not exist.	Invalid personal meeting ID.	Use another personal meeting ID.
400	USG.201080004	No dedicated cloud meeting room is allocated to the user.	The cloud meeting room is not allocated to this user.	Check whether the cloud meeting room has been allocated to the user.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201080005	Deletion failed. There cannot be fewer cloud meeting rooms or webinars than purchased packages.	Delete cloud meeting room failed. The number of cloud meeting rooms cannot be less than the number of rooms you have purchased.	Check the request parameters.
400	USG.201080006	Host and guest passwords must be different.	The host password must be different from the guest password.	Check the request parameters.
400	USG.201080007	The length of the start ID is different from that of the end ID, or the start ID is greater than the end ID.	The length of the start ID is different from that of the end ID, or the start ID is greater than the end ID.	Ensure that the length of the start ID is the same as that of the end ID and the start ID is less than or equal to the end ID.
400	USG.201080008	The cloud meeting room ID range already exists.	The cloud meeting room ID range already exists.	Change the cloud meeting room ID range and try again.
400	USG.201080009	The cloud meeting room ID range has been allocated and cannot be modified or deleted.	The cloud meeting room ID range has been allocated and cannot be modified or deleted.	Reclaim the cloud meeting room ID range and try again.
400	USG.201080010	No idle cloud meeting room ID.	No idle cloud meeting room ID in the system.	Try again later.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201080011	Before initializing the cloud meeting room ID or personal meeting ID, ensure that sufficient ID segments are available in the system.	Request for initializing the cloud meeting room ID or personal meeting ID timed out. Check whether the system ID segments are sufficient.	Check whether the system ID segments are sufficient.
400	USG.201080012	Only one cloud meeting room can be allocated to each hard terminal.	Only one cloud meeting room can be allocated to a hard terminal.	Check the request parameters.
400	USG.201080013	The device does not support cloud meeting rooms.	Currently, hard terminals that cloud meeting rooms can be allocated to include TE10, TE20, HUAWEI Board, HUAWEI Bar 500, and HUAWEI Box.	Check the input parameters.
400	USG.201080014	No cloud meeting rooms available.	No cloud meeting rooms are available.	Try again later.
400	USG.201090001	The dedicated cloud meeting room package name already exists.	The dedicated cloud meeting room package name already exists.	Use another dedicated cloud meeting room package name.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201090003	The name of a cloud meeting room package cannot be changed after the package is allocated.	The name of a cloud meeting room package cannot be changed after the package is allocated.	Reclaim the cloud meeting room package and try again.
400	USG.201090004	No cloud meeting room package is allocated to the SP.	No cloud meeting room package is allocated to the SP.	Allocate a cloud meeting room package to the SP and try again.
400	USG.201090005	The number of cloud meeting room packages that can be allocated exceeds the upper limit. Check the purchased cloud meeting room package resources.	The number of cloud meeting room packages that can be allocated has exceeded the upper limit.	Check the purchased cloud meeting room packages.
400	USG.201090006	The number of dedicated cloud meeting room packages allocated by the system administrator to the SP is less than that allocated by the SP to its enterprises.	The number of dedicated cloud meeting room packages allocated by the system administrator to the SP is less than the number of packages allocated by the SP to its enterprises.	Ensure that the number of dedicated cloud meeting room packages allocated by the system administrator to the SP is not less than the number of packages allocated by the SP to its enterprises.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201090007	The dedicated cloud meeting room package has been allocated to an enterprise and cannot be recycled by the SP.	The dedicated cloud meeting room has been allocated to an enterprise and cannot be reclaimed by the SP.	Ask the enterprise administrator to reclaim the cloud meeting room and try again.
400	USG.201090008	The total dedicated number of cloud meeting room packages allocated by the SP administrator to enterprises is less than the number of dedicated cloud meeting room packages that the enterprises have allocated to users.	The number of dedicated cloud meeting room packages allocated by the SP administrator to enterprises cannot be less than the number of packages allocated by the enterprises to users.	Ensure that the number of dedicated cloud meeting room packages allocated by the SP administrator to the enterprises is not less than the number of packages allocated by the enterprises to users.
400	USG.201090010	The dedicated cloud meeting room package has been allocated to the SP and cannot be deleted.	The dedicated cloud meeting room package has been allocated to the SP and cannot be deleted.	Reclaim the package allocated to the SP and try again.
400	USG.201090011	A maximum of 10000 cloud meeting rooms can be allocated to an enterprise at a time.	Up to 1,000 cloud meeting rooms can be allocated to an enterprise at a go.	Allocate up to 1,000 cloud meeting rooms to an enterprise at a go.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201090012	No cloud meeting room package is allocated to the enterprise.	No cloud meeting room package is allocated to the enterprise.	Allocate a cloud meeting room package to the enterprise and try again.
400	USG.201100000	The file size exceeds the maximum.	File is too large.	Check the file size.
400	USG.201100001	The file size exceeds the maximum.	File is too large.	Check the file size.
400	USG.201100002	Incorrect file format.	Incorrect file format.	Check the file format.
400	USG.201100003	The file is empty.	The file is empty.	Check the file content.
400	USG.201100004	The file is empty or the file format does not meet the requirements.	The file is empty or the file format is invalid.	Check the file content or format.
400	USG.201100005	The number of rows in the file exceeds the maximum.	Too many rows in the file.	Remove some rows in the file.
400	USG.201100006	A task of the same type is running. Please try again later.	A task of the same type is running.	Try again later.
400	USG.201100007	The record cannot be deleted because the task is not complete.	The record cannot be deleted because the task is not complete.	Delete the task after it is complete.
400	USG.201100010	Import failed. The user already exists.	Import failed. The user already exists.	Check whether the user exists.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201100012	The imported file does not match the template provided by the system. Download the latest template.	The imported file does not match the preset template. Download the latest template.	Download the latest template and try again.
400	USG.201110000	The group does not exist.	Group not found.	Check the request parameters.
400	USG.201110001	The same-level group name exists.	The name is used by a group at the same level.	Change the group name and try again.
400	USG.201110002	The group level exceeds the maximum.	The group level has exceeded the maximum allowed limit.	Ensure that the group level does not exceed the maximum allowed limit.
400	USG.201110003	The number of groups at each level exceeds the maximum.	The number of groups at each level has exceeded the maximum allowed limit.	Ensure that the number of groups at each level do not exceed the maximum allowed limit.
400	USG.201110004	The parent group cannot be itself or its subgroup.	The parent group of a group is not the group or its subgroup.	Ensure that the parent group of a group is not the group or its subgroup.
400	USG.201110005	The group has an enterprise and cannot be deleted.	The group has an enterprise and cannot be deleted.	Delete the enterprises under the group and try again.
400	USG.201110006	The root group cannot be deleted.	The root group cannot be deleted.	Do not delete the default root group.
400	USG.201120000	The enterprise resource ID does not exist.	Enterprise resource ID not found.	Check the request parameters.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201120003	The resource expiration date must be later than the current date.	The resource expiration date must be later than the current date.	Ensure that the resource expiration date is later than the current date.
400	USG.201120004	Cannot modify meeting resources.	The resource cannot be modified.	The resource is in operation. Do not modify it.
400	USG.201130001	No privacy statement selected.	No privacy statement is selected.	Select the privacy statement to be uploaded.
400	USG.201130002	Failed to upload the privacy statement.	Failed to upload the privacy statement.	Try again later.
400	USG.201130003	The input parameter for uploading the privacy statement is incorrect.	The input parameter for uploading the privacy statement is incorrect.	Check the input parameter for uploading the privacy statement.
400	USG.201130004	The input parameter for downloading the privacy statement is incorrect.	The input parameter for downloading the privacy statement is incorrect.	Check the input parameter for downloading the privacy statement.
400	USG.201130007	The file size cannot exceed 2 MB.	The file size cannot exceed 2 MB.	The file to be uploaded cannot be larger than 2 MB.
400	USG.201130008	The file format must be .docx.	The file format must be .docx.	Use a .docx file.
400	USG.201200001	This application name already exists.	The application name is in use.	Use another application name.
400	USG.201200002	The app name is empty.	The application name is empty.	Check the application name parameter.

Status Code	Error Code	Error Message	Description	Solution
400	USG.201200003	The app does not exist.	Application not found.	Check the request parameters.
400	USG.201200004	The plug-in does not exist.	Plug-in not found.	Check the request parameters.
400	USG.201200005	The app has associated apps. Delete the associated apps first.	Associated applications exist. Delete them first.	Delete the associated applications and try again.
400	USG.201200006	The plug-in already exists.	The plug-in already exists.	Use another plug-in.
400	USG.201200007	The plug-in name already exists.	The plug-in name is in use.	Use another plug-in name.
400	USG.202010007	The data already exists.	Data already exists.	Data already exists. Use other data.
400	USG.202040001	User not existed in current corporation.	User not found in this enterprise.	The specified user ID does not belong to the enterprise. Check whether the user belongs to this enterprise.
400	USG.202040003	The maximum acceptable image dim is 4096*4096, but {{imageDimension}} is received	Invalid image size.	Adjust the image size. The maximum image size is 4,096 x 4,096.
400	USG.202040004	Invalid image	The image cannot be parsed.	Upload a valid image file.
400	USG.206010000	Invalid username or password.	Incorrect username or password.	Check the entered username and password.

Status Code	Error Code	Error Message	Description	Solution
400	USG.206010005	Login timed out. Please re-log in.	Login timed out. Log in to the system again.	Login timed out. Log in to the system again.
400	USG.206010008	Failed to log in. The user does not exist or is not activated.	User not found or not activated. It cannot be used for login.	Check whether the user information exists and whether the user is activated. If yes, try again.
400	USG.206010011	The verification code cannot be empty.	Verification code required.	Enter the verification code.
400	USG.206010012	Incorrect verification code.	Verification failed.	Enter the correct verification code.
400	USG.206010023	The current enterprise domain name or account does not support SSO.	The current enterprise domain name or account does not support SSO.	Use other login methods or check whether the enterprise domain name is correct.
400	USG.206010026	The enterprise domain name is already in use.	The enterprise domain name for SSO is in use.	Use another enterprise domain name.
400	USG.206010028	Use SSO for login.	Use SSO for login.	SSO has been enabled for the enterprise. Use SSO for login.
400	USG.206030000	The user does not exist.	User not found in the system.	Check the request parameters.
400	USG.206030001	The verification code is incorrect or has expired. Please obtain a new one.	The verification code is incorrect or has expired. Obtain a new one.	The verification code is incorrect or has expired. Obtain a new one.

Status Code	Error Code	Error Message	Description	Solution
400	USG.206030002	Incorrect verification code.	Incorrect verification code.	Enter the correct verification code.
400	USG.206030004	Try to get a new verification code {{sendLeftTime}}s later.	Resend a verification code 180s later.	Resend a verification code 180s later.
400	USG.206030005	The password cannot be changed.	The system does not support password change.	The system does not support password change. Do not change the password.
400	USG.206030006	The current password is incorrect.	The current password is incorrect.	Check the entered current password.
400	USG.206030007	The length of the new password does not meet the requirements.	The length of the new password does not meet the requirements.	Enter a valid new password.
400	USG.206030008	The password complexity does not meet the requirements.	The password complexity does not meet the requirements.	Set a password that meets the complexity requirements.
400	USG.206030009	The new password must be different from the previous old passwords.	The new password must be different from any of the previous old passwords.	Do not use an old password.
400	USG.206030010	The password cannot contain three or more of the same characters consecutively.	The password cannot contain three or more of the same characters consecutively.	Do not contain three or more of the same characters consecutively when setting a password.

Status Code	Error Code	Error Message	Description	Solution
400	USG.206030011	The password cannot be changed within 5 minutes upon the last password change.	The password cannot be changed within 5 minutes upon the last password change.	Try again 5 minutes later.
400	USG.206030012	The password cannot contain the account or the reverse order of the account.	The password cannot be the account or the account spelled backwards.	Do not contain the account or the account in reverse order in the password.
400	USG.206030013	At least two characters must be different between the new and old passwords.	At least two characters must be different between the new and old passwords.	When setting the new password, contain at least two characters that differ from the old password.
400	USG.206030014	Invalid password format.	Invalid password format.	Set the password in the required format.
400	USG.206030018	The number of password retrieval times in a day has reached the maximum (10 times).	The number of password retrieval times in a day has reached the maximum (10).	Try again 24 hours later.
400	USG.206030019	The number of incorrect verification code inputs exceeds the maximum. Please obtain a new verification code.	The maximum number of incorrect verification code inputs has been reached.	Obtain a new verification code.

Status Code	Error Code	Error Message	Description	Solution
400	USG.206030025	Failed to send the verification code because your company has not subscribed to the SMS service. Obtain the verification code by email.	Failed to send the verification code because your company has not subscribed to the SMS service.	Obtain the verification code by email.
400	USG.206030027	The number of password reset times in a day has reached the maximum (5).	The number of password reset times in a day has reached the maximum (5).	Try again 24 hours later.
400	USG.206030028	Password change is not allowed when SSO is enabled.	Password change is not allowed when SSO is enabled.	Disable SSO and try again.
400	WSS.000000004	Illegal request.	Invalid request.	Check the value of the request header X-Auth-Token or X-Access-Token .
400	WSS.301000001	Failed to pass image moderation.	Image rejected.	Change the image.
400	WSS.301000012	File format not supported.	Invalid file format.	Change the file.
400	WSS.301000013	The file size exceeds the limit.	File is too large.	Change the file.
400	WSS.301000014	Parameter invalid.	Invalid request parameter.	Check the request parameters.
400	WSS.301000015	The business ID does not exist.	Service ID to be queried not found.	Check the service ID.

Status Code	Error Code	Error Message	Description	Solution
400	WSS.301000016	Frequent operation.	Frequent operations.	Try again later.
400	WSS.301000018	Duplicate password.	Duplicate password.	Change the password.
400	WSS.301000019	Invalid users	Invalid users.	Check the user information.
400	WSS.301000020	Attendees exceed limit	Too many panelists.	The number of panelists must be less than or equal to 200.
400	WSS.301000100	The webinar does not exist.	Webinar not found.	Check the webinar ID.
400	WSS.301000101	Operation conflict. The conference is updating.	Operation conflict. The meeting is being changed.	Try again later.
400	WSS.301000102	The webinar is not editable now.	The webinar is not editable now.	Try again later.
400	WSS.301000103	VMR invalid.	Invalid cloud meeting room resource.	Check the cloud meeting room ID.
400	WSS.301000601	File upload failed.	Upload file failed.	Check the file.
400	WSS.301000602	The number of uploaded files exceeds the limit.	Too many files uploaded.	Delete some uploaded files.
400	USG.206110004	The count of applications is over limit	Too many applications to be requested.	Request up to 10 applications.
400	USG.206110009	Unauthorized access, application does not belong to the enterprise.	Unauthorized access. The application does not belong to the enterprise.	Check the application ID.

Status Code	Error Code	Error Message	Description	Solution
401	MMC.111076013	CONF_APPLY_ADDRESS_TO_KEN_FAILED	Failed to apply for corporate directory authentication information.	Check whether you have the permission to obtain the corporate directory.
401	MMC.118000000	USER_AUTHENTICATION_FAILED	User authentication failed.	Check whether the token is valid. Use a valid token and try again.
401	USG.201000000	Invalid token.	Invalid token.	Check the value of the request header X-Auth-Token or X-Access-Token .
401	USG.206010025	App auth failed.	Verify application ID failed.	Check whether the value of the Authorization header is correct.
401	USG.206020000	Invalid authentication information.	Invalid authentication information.	Check the value of the request header X-Auth-Token or X-Access-Token .
401	USG.206030017	The authentication failed.	Access denied.	Check the value of the request header X-Auth-Token or X-Access-Token .
401	WSS.301000095	Authentication failed.	Access denied.	Check the user permissions.
403	MMC.111070002	CONF_INSUFFICIENT_PERMISSIONS	You do not have the required permissions. Contact the enterprise administrator.	Contact the enterprise administrator to assign permissions.
403	MMC.111070010	CONF_ROLE_AUTHENTICATION_FAILED	You do not have the permissions to view the meeting.	Use an account with the permissions to view the meeting.

Status Code	Error Code	Error Message	Description	Solution
403	MMC.111074002	IDO_NOT_CONF_CHAIR	You do not have the host permissions.	Perform the operation as a meeting host.
403	USG.201020005	The SP does not have the PSTN call permission and cannot configure the permission for its enterprises.	The SP does not have the PSTN call permissions and cannot configure the permissions for its enterprises.	Request the call permissions for the SP and try again.
403	USG.206010007	Unauthorized login. The account is not activated.	The account is not activated and cannot be used for login.	Activate the account before login.
403	USG.206030016	You do not have the permission to reset the password.	You do not have the permissions to reset the password.	Reset the password as a user with the permissions to reset passwords.
403	USG.206030024	Failed to send the SMS message because the enterprise does not have the permission to send SMS messages.	Failed to send the SMS message because the enterprise does not have the permissions to send SMS messages.	Request the commercial enterprise edition before sending SMS notifications.
412	USG.201040022	Cannot disable, enable, or delete this user.	This user cannot be disabled, enabled, or deleted.	Check the user account.
413	USG.202040005	The maximum acceptable bytes length is 10 MB, but {{fileSize}} is received	The image file is too large.	The maximum image size is 10 MB.

Status Code	Error Code	Error Message	Description	Solution
415	USG.202040002	Image format {{format}} is not supported	Unsupported image format: {{format}}.	Upload an image in a supported format.
423	MMC.111071052	CONF_ANONYMOUS_LOGIN_LOCKED	Anonymous login has been locked.	Try again later.
423	MMC.111071053	CONF_LINK_LOGIN_LOCKED	Login via a link has been locked.	Try again later.
423	MMC.111071120	WEBHOOK_CONFIG_IS_LOCKED	The enterprise-level meeting event subscription configuration has been locked.	Too many failed attempts for enabling the event subscription configuration. Try again 1 hour later.
423	MMC.111071124	TERMINAL_START_CONFIG_LOCKED	Failed to activate the meeting on the terminal. The account has been locked.	The account is locked because the number of meeting activation failures has exceeded the maximum. Try again later.
423	MMC.111072064	CONF_CTRL_LOGIN_LOCKED	Too many failed attempts. The account has been locked. Try again later.	Check the input parameters and try again later.
423	MMC.118000002	USER_AUTHENTICATION_LOCKED	The account for USG authentication has been locked.	Contact the enterprise administrator to unlock the account.

Status Code	Error Code	Error Message	Description	Solution
423	USG.201040012	The number of verification code check failures exceeds the upper limit. Your account has been locked. Please try again later.	Too many failed verification code attempts. Your account has been locked. Try again later.	Try again 30 minutes later.
423	USG.206030015	The user is locked and will be locked in {{lockLeftTime}}s.	The user has been locked. Try again {{lockLeftTime}}s later.	Try again later.
500	MMC.111070003	CONF_EXCEPTION	System processing failed.	Submit a service ticket.
500	MMC.111070100	CONF_GET_STARTED_CONF_EXCEPTION	An exception occurred when obtaining the meeting to be held.	Submit a service ticket.
500	MMC.111070101	CONF_START_EXCEPTION	An exception occurred when starting the meeting.	Submit a service ticket.
500	MMC.111070102	CONF_APPLY_IVR_RESOURCE_EXCEPTION	An exception occurred when requesting IVR resources.	Submit a service ticket.
500	MMC.111070103	START_IVRCONF_EXCEPTION	An exception occurred when starting the IVR meeting.	Submit a service ticket.
500	MMC.111070104	CONF_APPLY_PARTICIPANT_RESOURCE_EXCEPTION	An exception occurred when starting the IVR meeting.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.111070105	START_SUBCONF_EXCEPTION	An exception occurred when starting the meeting.	Submit a service ticket.
500	MMC.111070106	CONF_ADD_CHANNEL_EXCEPTION	An exception occurred when creating the cascading channel.	Submit a service ticket.
500	MMC.111070107	CONF_MOVE_AND_APPLY_RESOURCE_EXCEPTION	An exception occurred when applying for resources to move the participant.	Submit a service ticket.
500	MMC.111070108	START_CONF_EXCEPTION	An exception occurred when starting the meeting.	Submit a service ticket.
500	MMC.111070109	CONF_GET_STARTED_VMRC_CONF_EXCEPTION	An exception occurred when obtaining details of a meeting held using the cloud meeting room.	Submit a service ticket.
500	MMC.111070110	CONF_INVITE_PARTICIPANT_EXCEPTION	An exception occurred when inviting the participant.	Submit a service ticket.
500	MMC.111070112	CONF_RENAME_PARTICIPANT_EXCEPTION	An exception occurred when renaming the participant.	Submit a service ticket.
500	MMC.111070113	CONF_HANGUP_EXCEPTION	An exception occurred when disconnecting the participant.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.111070114	CONF_BULK_HANGUP_EXCEPTION	An exception occurred when disconnecting the participants.	Submit a service ticket.
500	MMC.111070115	CONF_DELETE_ATTENDEE_EXCEPTION	An exception occurred when removing the participant.	Submit a service ticket.
500	MMC.111070116	CONF_BULK_DELETE_ATTENDEE_EXCEPTION	An exception occurred when removing the participants.	Submit a service ticket.
500	MMC.111070117	SCHEDULE_CYCLE_CONF_EXCEPTION	An exception occurred when scheduling a recurring meeting.	Submit a service ticket.
500	MMC.111070118	MODIFY_CYCLE_CONF_EXCEPTION	An exception occurred when modifying the recurring meeting.	Submit a service ticket.
500	MMC.111070119	CREATE_CYCLE_CONF_EXCEPTION	An exception occurred when creating a recurring meeting.	Submit a service ticket.
500	MMC.111070120	REGION_DATA_NOT_FOUND	Failed to obtain the region information.	Submit a service ticket.
500	MMC.111071001	CONF_SYSTEM_SERVICE_EXCEPTION	System processing failed.	Submit a service ticket.
500	MMC.111071008	CONF_QUERY_LIST_FAIL	Query meeting list failed.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.111071068	CONF_PWD_ENCRYPT_FAILED	Encrypt meeting passwords failed.	Submit a service ticket.
500	MMC.111071071	STOP_ONLINE_CONF_EXCEPTION	End meeting failed.	Submit a service ticket.
500	MMC.111071117	QUERY_RECORD_DOWNLOAD_NOT_IN_WHITELIST	The enterprise is not in the whitelist and cannot call the API to query the recording download link.	Submit a service ticket.
500	MMC.111071118	RECORD_INFO_NOT_EXIST	Recording file not found.	Submit a service ticket.
500	MMC.111072001	CONF_APPLY_RESOURCE_FAILED	Request meeting resources failed.	Submit a service ticket.
500	MMC.111072002	CONF_RELEASE_RESOURCE_FAILED	Release meeting resources failed.	Submit a service ticket.
500	MMC.111072007	CONF_INVITE_PARTICIPANT_FAILED	Invite participant failed.	Submit a service ticket.
500	MMC.111072008	CONF_PARTICIPANT_NOT_EXIST	Participant not found.	Submit a service ticket.
500	MMC.111072009	CONF_PARTICIPANT_HANGUP_FAILED	Disconnect participant failed.	Submit a service ticket.
500	MMC.111072010	CONF_NOT_SUPPORT	The function is still being developed. Coming soon...	Submit a service ticket.
500	MMC.111072011	CONF_STATUS_ILLEGAL	Incorrect meeting state.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.111072019	CONF_NOT_FOUND_CANMOVESITE_EXCEPTION	No participant can be moved.	Submit a service ticket.
500	MMC.111072021	RECORD_RESOURCE_NOT_ENOUGH	Insufficient recording resources.	Submit a service ticket.
500	MMC.111072022	RECORD_SCHEDULE_FAIL	Recording scheduling failed.	Submit a service ticket.
500	MMC.111072048	MCU_NOT_SUPPORT_SET_MULTIPIC	Continuous presence is not supported. Contact the administrator to enable the related function on the MCU.	Submit a service ticket.
500	MMC.111072063	RSE_RESREAPPLY	The recording resource has already been requested.	Submit a service ticket.
500	MMC.111072067	ORG_RECSPACE_NOT_ENOUGH	Insufficient recording storage in the enterprise.	Delete existing recordings or purchase more storage resources.
500	MMC.111072072	NO_CONF_CTL_CAP_NO_CHAIR	A participant without the meeting control capability cannot be set as the host.	The current participant does not have the meeting control capability. Submit a service ticket.
500	MMC.111072115	CONF_NOT_SUPPORT_CLOSE_VIDEO	The meeting does not allow the host to disable cameras.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.111072117	CONF_NOT_SUPPORT_INVITE_OPEN_VIDEO	The meeting does not allow the host to invite users to enable the camera.	Submit a service ticket.
500	MMC.111073005	USER_DATA_ORG_INFO_QUERY_FAILED	Query department failed.	Submit a service ticket.
500	MMC.111073006	ASSIGN_ANONYMOUS_FAILED	Unstable network connection. Try again later.	Submit a service ticket.
500	MMC.111073007	VMR_DATA_STATUS_ILLEGAL	The cloud meeting room cannot be used. Contact the enterprise administrator.	Submit a service ticket.
500	MMC.111076099	CONF_PORTAL_PARTICIPANT_COMMON_ERROR	Common error.	Submit a service ticket.
500	MMC.111077001	RSE_SERVER_INFO_NOT_EXIST	Recording device not found.	Submit a service ticket.
500	MMC.111078000	MULTI_REGION_NO_AVAILABLE_REGION	No Region site available.	Submit a service ticket.
500	MMC.111078001	MULTI_REGION_NO_AVAILABLE_GLOBAL	No Global site is available.	Submit a service ticket.
500	MMC.111078002	MULTI_REGION_DISPATCH_REGION_ERROR	Failed to distribute regions in multi-region mode.	Submit a service ticket.
500	MMC.111079000	DATA_PARAM_QUERY_XML_FAILED	Failed to parse the XML file.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.111079001	ANONYMOUS_ASSIGN_XML_FAILED	Failed to parse the XML file for anonymous account allocation.	Submit a service ticket.
500	MMC.111081003	PARTICIPANT_APPLY_RESOURCE_FAILED	An error occurs when the system requests meeting resources.	Submit a service ticket.
500	MMC.111081004	PARTICIPANT_RELEASE_RESOURCE_FAILED	An error occurs when the system releases meeting resources.	Submit a service ticket.
500	MMC.111081005	PARTICIPANT_APPLY_MEDIA_RESOURCE_FAILED	An error occurs when the system requests meeting resources.	Submit a service ticket.
500	MMC.111082001	CONF_NOT_SUPPORT	The meeting operation is not allowed.	Submit a service ticket.
500	MMC.111083001	RSE_SERVER_INFO_NOT_EXIST	Recording server not found.	Submit a service ticket.
500	MMC.111089002	URI_JOIN_XML_FAILED	Failed to parse the XML file for joining a meeting through a link.	Submit a service ticket.
500	MMC.111090001	DATA_JOIN_FAIL	Join data meeting failed.	Submit a service ticket.
500	MMC.111090002	DATA_JOIN_OVERTIME	Joining the data meeting timed out.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.111111001	MCU_NO RTP_STREAM_HUNG_UP	The MCU has been disconnected because no streams were transmitted.	Submit a service ticket.
500	MMC.111111002	CLIENT_NO RTP_STREAM_HUNG_UP	The client has been disconnected because no streams were transmitted.	Submit a service ticket.
500	MMC.111111003	SIP_TIMEOUT	SIP timed out. The participant has been disconnected.	Submit a service ticket.
500	MMC.111111004	WEBSOCKET_TIMEOUT	WebSocket timed out. The participant has been disconnected.	Submit a service ticket.
500	MMC.112010001	FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010002	NULL_PARAM	System processing failed.	Submit a service ticket.
500	MMC.112010003	PARTICIPANT_NOT_FOUND	System processing failed.	Submit a service ticket.
500	MMC.112010004	CONFERENCE_NOT_FOUND	System processing failed.	Submit a service ticket.
500	MMC.112010005	SIP_INVITE_TIMEOUT_NO_RCV1XX	System processing failed.	Submit a service ticket.
500	MMC.112010006	SIP_INVITE_FAILED	System processing failed.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.112010007	SIP_INFO_TIME_OUT	System processing failed.	Submit a service ticket.
500	MMC.112010008	SIP_INFO_FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010009	WAIT_FIRST_CALL_FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010010	PARTICIPANT_DIALOG_FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010011	INVITE_MRS_FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010012	INVITE_PARTICIPANT_FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010013	INFORM_CONF_INFO_FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010014	START_CONF_FAILED	System processing failed.	Submit a service ticket.
500	MMC.112010015	MEDIA_NEGOTIATION_FAILURE	The participant has been disconnected because no streams were transmitted.	Submit a service ticket.
500	MMC.115021001	MEDIARES_MEDIA_RESOURCE_NOT_ENOUGH	Insufficient meeting resources in the system.	Submit a service ticket.
500	MMC.115021002	MEDIARES_CONF_NOT_EXIST	System processing failed.	Submit a service ticket.
500	MMC.115021003	MEDIARES_MEDIA_RESOURCE_NOT_EXIST	System processing failed.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	MMC.115021004	MEDIARES_DEVICE_NOT_EXIST	Insufficient meeting resources in the system.	Submit a service ticket.
500	MMC.115021005	MEDIARES_BANDWIDTH_RESOURCE_NOT_ENOUGH	Insufficient bandwidth resources.	Submit a service ticket.
500	MMC.115023001	ID_RESOURCE_NOT_ENOUGH	Insufficient meeting ID resources.	Submit a service ticket.
500	MMC.115025003	LIVE_ROOM_RELEASE_FAIL	System processing failed.	Submit a service ticket.
500	MMC.115029001	COMMON_INVALID_PARAMS	System processing failed.	Submit a service ticket.
500	MMC.115029004	CONFIG_ERROR	Meeting ID configuration error.	Submit a service ticket.
500	MMC.115029005	DUPLICATE_APPLY_RESOURCE	Duplicate resource requests.	Submit a service ticket.
500	MMC.115029006	WAIT_APPLY_RESOURCE	Resources are being requested.	Submit a service ticket.
500	MMC.115029999	COMMON_UNKNOWN	System processing failed.	Submit a service ticket.
500	USG.000000001	The server is busy.	The server is busy.	Try again later.
500	USG.000000002	The server is busy.	The server is busy.	Submit a service ticket.
500	USG.000000010	Server busy.	The server is busy.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	USG.201000001	Failed to connect to eSight. Check whether interconnection parameters are correctly set and whether the eSight server is working properly.	Connect to eSight failed. Check whether the interconnection parameters are correct and whether the eSight server is working properly.	Submit a service ticket.
500	USG.201000002	Failed to connect to the eSight redirection server. Check whether the interconnection parameters are correctly set and whether the eSight redirection server is working properly.	Failed to connect to the eSight redirection server. Check whether the interconnection parameters are correct and whether the eSight redirection server is working properly.	Submit a service ticket.
500	USG.201000003	Failed to connect to the SMS&email server. Check whether the interconnection parameters are correctly set.	Failed to connect to the SMS and email server. Check whether the interconnection parameters are correct.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	USG.201000009	Failed to connect to the Ecs server. Check whether the interconnection parameters are correctly set and whether the Ecs server is working properly.	Connect to ECS failed. Check whether the interconnection parameters are correct and whether the ECS is working properly.	Submit a service ticket.
500	USG.201000010	Failed to connect to the HWCloudDisk. Check the connection settings.	Connect to cloud drive failed. Check the interconnection settings.	Submit a service ticket.
500	USG.201000011	Failed to connect to the Nginx. Check the connection settings.	Connect to Nginx failed. Check the interconnection settings.	Submit a service ticket.
500	USG.201000012	The standby site is inaccessible.	Only some query operations are supported at the standby site.	The standby site supports only some query operations. Do not perform other operations.
500	USG.201000013	The region site cannot be accessed.	The OBS service is unavailable.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	USG.201000019	Failed to connect to the PushCenter. Check whether the connection parameters are correctly set and whether the PushCenter is working properly.	Connect to PushCenter failed. Check whether the interconnection parameters are correct and whether the PushCenter is working properly.	Submit a service ticket.
500	USG.201030002	Adding the department timed out. Please try again later.	Adding the department timed out. Try again later.	Internal service error. Try again later.
500	USG.201060006	The meeting access number has been allocated to an enterprise of the SP and cannot be recycled.	The meeting access number has been allocated to an enterprise of the SP and cannot be reclaimed.	Submit a service ticket.
500	USG.201090002	A conflict occurred when allocating the cloud meeting room package.	A conflict occurred when allocating the cloud meeting room package.	Submit a service ticket.
500	USG.201100008	The table cannot be verified.	The table cannot be verified.	Submit a service ticket.
500	USG.201120001	SP resources are insufficient and cannot be allocated to enterprises.	SP resources are insufficient and cannot be allocated to enterprises.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	USG.201120002	The resources of the same ID exist in an enterprise.	The resource of this ID exists in the enterprise.	Submit a service ticket.
500	USG.201130000	File download failed.	File download failed.	Submit a service ticket.
500	USG.201130005	The file you are trying to download does not exist.	File to be downloaded not found.	Check the request parameters.
500	USG.201130006	The file you are trying to download does not exist.	File to be downloaded not found.	Check the request parameters.
500	USG.206010010	Failed to obtain the verification code.	Obtain verification code failed.	Submit a service ticket.
500	USG.206010013	The redirection failed.	Redirection for login failed.	Submit a service ticket.
500	USG.206010022	SSO failed.	Login via SSO failed.	Submit a service ticket.
500	USG.206030003	Failed to send the verification code.	Send verification code failed.	Submit a service ticket.
500	USG.206030020	Failed to send the SMS message.	Send SMS message failed.	Submit a service ticket.
500	USG.206030021	Failed to send the email.	Send email failed.	Submit a service ticket.
500	USG.206030022	Failed to send the reset password.	Send reset password failed.	Submit a service ticket.
500	USG.206030023	Failed to send the verification code.	Send verification code failed.	Submit a service ticket.

Status Code	Error Code	Error Message	Description	Solution
500	WSS.301000000	Internal error.	Internal calling failed.	Internal processing failed. Submit a service ticket.
500	WSS.301000099	Internal error.	Internal calling failed.	Internal processing failed. Submit a service ticket.
503	USG.000000008	The system is being upgraded and is temporarily inaccessible. Sorry for any inconvenience	The system is being upgraded and is temporarily inaccessible. Sorry for any inconvenience	Try again later.

19 Appendixes

19.1 List of Countries or Regions That Mobile Numbers Belong To

Table 19-1 List of countries or regions that mobile numbers belong to

Country or Region	Country or Region Code
chinaPR	+86 (Chinese mainland)
chinaHKG	+852 (Hong Kong SAR, China)
chinaOMA	+853 (Macao SAR, China)
chinaTPE	+886 (Taiwan, China)
BVI	+1284 (British Virgin Islands)
Bolivia	+591 (Bolivia)
CZ	+420 (Czech Republic)
GB	+245 (Guinea-Bissau)
SVGrenadines	+1784 (Saint Vincent and the Grenadines)
TAT	+1868 (Trinidad and Tobago)
UK	+44 (United Kingdom)
afghanistan	+93 (Afghanistan)
albania	+355 (Albania)
algeria	+213 (Algeria)
andorra	+376 (Andorra)
angola	+244 (Angola)

Country or Region	Country or Region Code
argentina	+54 (Argentina)
armenia	+374 (Armenia)
australia	+61 (Australia)
austria	+43 (Austria)
azerbaijan	+994 (Azerbaijan)
bahamas	+1242 (Bahamas)
bahrain	+973 (Bahrain)
bangladesh	+880 (Bangladesh)
belarus	+375 (Belarus)
belgium	+32 (Belgium)
belize	+501 (Belize)
benin	+229 (Benin)
bosniaAndHerzegovina	+387 (Bosnia and Herzegovina)
botswana	+267 (Botswana)
brazil	+55 (Brazil)
brunei	+673 (Brunei)
bulgaria	+359 (Bulgaria)
burkinaFaso	+226 (Burkina Faso)
burundi	+257 (Burundi)
cambodia	+855 (Cambodia)
cameroon	+237 (Cameroon)
canada	+1 (Canada)
capeVerde	+238 (Cape Verde)
caymanIslands	+1345 (Cayman Islands)
centralAfrican	+236 (Central Africa)
chad	+235 (Chad)
chile	+56 (Chile)
columbia	+57 (Colombia)
comoros	+269 (Comoros)
congoB	+242 (Congo - Brazzaville)

Country or Region	Country or Region Code
congoJ	+243 (Congo - Kinshasa)
costarica	+506 (Costa Rica)
croatia	+385 (Croatia)
curacao	+599 (Curacao)
cyprus	+357 (Cyprus)
denmark	+45 (Denmark)
djibouti	+253 (Djibouti)
dominica	+1809 (Dominican Republic)
ecuador	+593 (Ecuador)
egypt	+20 (Egypt)
equatorialGuinea	+240 (Equatorial Guinea)
estonia	+372 (Estonia)
finland	+358 (Finland)
france	+33 (France)
gabon	+241 (Gabon)
gambia	+220 (Gambia)
georgia	+995 (Georgia)
germany	+49 (Germany)
ghana	+233 (Ghana)
greece	+30 (Greece)
grenada	+1473 (Grenada)
guatemala	+502 (Guatemala)
guinea	+224 (Guinea)
guyana	+592 (Guyana)
honduras	+504 (Honduras)
hungary	+36 (Hungary)
india	+91 (India)
indonesia	+62 (Indonesia)
iraq	+964 (Iraq)
ireland	+353 (Ireland)

Country or Region	Country or Region Code
israel	+972 (Israel)
italy	+39 (Italy)
ivoryCoast	+225 (Cote d'Ivoire)
jamaica	+1876 (Jamaica)
japan	+81 (Japan)
jordan	+962 (Jordan)
kazakhstan	+7 (Kazakhstan)
kenya	+254 (Kenya)
kuwait	+965 (Kuwait)
kyrgyzstan	+996 (Kyrgyzstan)
laos	+856 (Laos)
latvia	+371 (Latvia)
lebanon	+961 (Lebanon)
lesotho	+266 (Lesotho)
liberia	+231 (Liberia)
libya	+218 (Lybia)
lithuania	+370 (Lithuania)
luxembourg	+352 (Luxembourg)
macedonia	+389 (North Macedonia)
madagascar	+261 (Madagascar)
malawi	+265 (Malawi)
malaysia	+60 (Malaysia)
maldives	+960 (Maldives)
mali	+223 (Mali)
malta	+356 (Malta)
mauritania	+222 (Mauritania)
mauritius	+230 (Mauritius)
mexico	+52 (Mexico)
moldova	+373 (Moldova)
mongolia	+976 (Mongolia)

Country or Region	Country or Region Code
montenegro	+382 (Montenegro)
morocco	+212 (Morocco)
mozambique	+258 (Mozambique)
myanmar	+95 (Myanmar)
namibia	+264 (Namibia)
nepal	+977 (Nepal)
netherlands	+31 (Netherlands)
newZealand	+64 (New Zealand)
nicaragua	+505 (Nicaragua)
niger	+227 (Niger)
nigeria	+234 (Nigeria)
norway	+47 (Norway)
oman	+968 (Oman)
pakistan	+92 (Pakistan)
palestine	+970 (Palestine)
panama	+507 (Panama)
papuaNewGuinea	+675 (Papua New Guinea)
peru	+51 (Peru)
philippines	+63 (Philippines)
poland	+48 (Poland)
portugal	+351 (Portugal)
puertoRico	+1787 (Puerto Rico)
qatar	+974 (Qatar)
romania	+40 (Romania)
russia	+7 (Russia)
rwanda	+250 (Rwanda)
saintMartin	+590 (Saint Martin)
salvatore	+503 (El Salvador)
saudiArabia	+966 (Saudi Arabia)
senegal	+221 (Senegal)

Country or Region	Country or Region Code
serbia	+381 (Serbia)
seychelles	+248 (Seychelles)
sierraLeone	+232 (Sierra Leone)
singapore	+65 (Singapore)
slovakia	+421 (Slovakia)
slovenia	+386 (Slovenia)
somalia	+252 (Somalia)
southAfrica	+27 (South Africa)
southKorea	+82 (South Korea)
spain	+34 (Spain)
sriLanka	+94 (Sri Lanka)
suriname	+597 (Suriname)
swaziland	+268 (Eswatini)
sweden	+46 (Sweden)
switzerland	+41 (Switzerland)
tajikistan	+992 (Tajikistan)
tanzania	+255 (Tanzania)
thailand	+66 (Thailand)
togo	+228 (Togo)
tunisia	+216 (Tunisia)
turkey	+90 (Turkey)
turkmenistan	+993 (Turkmenistan)
uae	+971 (United Arab Emirates)
uganda	+256 (Uganda)
ukraine	+380 (Ukraine)
uruguay	+598 (Uruguay)
usa	+1 (United States)
uzbekistan	+998 (Uzbekistan)
venezuela	+58 (Venezuela)
vietNam	+84 (Vietnam)

Country or Region	Country or Region Code
yemen	+967 (Yemen)
zambia	+260 (Zambia)
zimbabwe	+263 (Zimbabwe)

19.2 Time Zone Table

Table 19-2 Time zone mapping

Value	Time Zone
1	(GMT-12:00) Eniwetok, Kwajalein
2	(GMT-11:00) Midway Island, Samoa
3	(GMT-10:00) Hawaii
4	(GMT-09:00) Alaska
5	(GMT-08:00) Pacific Time (US & Canada), Tijuana
6	(GMT-07:00) Arizona
7	(GMT-07:00) Mountain Time (US & Canada)
8	(GMT-06:00) Central America
9	(GMT-06:00) Central Time (US & Canada)
10	(GMT-06:00) Mexico City
11	(GMT-06:00) Saskatchewan
12	(GMT-05:00) Bogota, Lima, Quito
13	(GMT-05:00) Eastern Time (US & Canada)
14	(GMT-05:00) Indiana (East)
15	(GMT-04:00) Atlantic Time (Canada)
16	(GMT-04:00) Caracas, La Paz
17	(GMT-04:00) Santiago
18	(GMT-03:30) Newfoundland
19	(GMT-03:00) Brasilia

Value	Time Zone
20	(GMT-03:00) Buenos Aires, Georgetown
21	(GMT-03:00) Greenland
22	(GMT-02:00) Mid-Atlantic
23	(GMT-01:00) Azores
24	(GMT-01:00) Cape Verde Is.
25	(GMT) Casablanca, Monrovia
26	(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
27	(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
28	(GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
29	(GMT+01:00) Brussels, Copenhagen, Madrid, Paris
30	(GMT+01:00) Sarajevo, Skopje, Sofija, Warsaw, Zagreb
31	(GMT+01:00) West Central Africa
32	(GMT+02:00) Athens, Istanbul, Vilnius
33	(GMT+02:00) Bucharest
34	(GMT+02:00) Cairo
35	(GMT+02:00) Harare, Pretoria
36	(GMT+02:00) Helsinki, Riga, Tallinn
37	(GMT+02:00) Jerusalem
38	(GMT+03:00) Baghdad, Minsk
39	(GMT+03:00) Kuwait, Riyadh
40	(GMT+03:00) Moscow, St. Petersburg, Volgograd
41	(GMT+03:00) Nairobi
42	(GMT+03:30) Tehran
43	(GMT+04:00) Abu Dhabi, Muscat
44	(GMT+04:00) Baku, Tbilisi, Yerevan
45	(GMT+04:30) Kabul

Value	Time Zone
46	(GMT+05:00) Ekaterinburg
47	(GMT+05:00) Islamabad, Karachi, Tashkent
48	(GMT+05:30) Calcutta, Chennai, Mumbai, New Delhi
49	(GMT+05:45) Kathmandu
50	(GMT+06:00) Almaty, Novosibirsk
51	(GMT+06:00) Astana, Dhaka
52	(GMT+05:30) Sri Jayawardenepura
53	(GMT+06:30) Rangoon
54	(GMT+07:00) Bangkok, Hanoi, Jakarta
55	(GMT+07:00) Krasnoyarsk
56	(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi, Taipei
57	(GMT+08:00) Irkutsk, Ulaan Bataar
58	(GMT+08:00) Kuala Lumpur, Singapore
59	(GMT+08:00) Perth
60	(GMT+09:00) Osaka, Sapporo, Tokyo
61	(GMT+09:00) Seoul
62	(GMT+09:00) Yakutsk
63	(GMT+09:30) Adelaide
64	(GMT+09:30) Darwin
65	(GMT+10:00) Brisbane
66	(GMT+10:00) Canberra, Melbourne, Sydney
67	(GMT+10:00) Guam, Port Moresby
68	(GMT+10:00) Hobart
69	(GMT+10:00) Vladivostok
70	(GMT+11:00) Magadan, Solomon Is., New Caledonia
71	(GMT+12:00) Auckland, Wellington
72	(GMT+12:00) Fiji

Value	Time Zone
73	(GMT+13:00) Nuku'alofa
74	(GMT+08:00) Irkutsk
75	(GMT) Casablanca
76	(GMT+04:00) Baku
77	(GMT+12:00) Kamchatka, Marshall Is.

20 FAQs

20.1 Performing Base64 Transcoding

This section demonstrates Base64 transcoding of authorization tokens (**Authorization** and **Conference-Authorization**). The [API for Performing Authentication](#) is used as an example.

Step 1 Open the Notepad++ software, create a file, and enter *account:password* (use the actual account and password) in the created file.

Use **user01:123** as an example. Select and right-click the text **user01:123**, and choose **Plugin commands > Base64 Encode** from the shortcut menu.

Step 2 The value of **Authorization** for authentication is **Basic dXNlcjAxOjEyMw==**. The Base64-based transcoding of the authorization token is complete.

----End

20.2 How Do I Use the Free or a Purchased Cloud Meeting Room to Create a Meeting?

Using the Free 50-Participant Cloud Meeting Room

1. Use the account that needs to create a meeting to call the [Querying Cloud Meeting Rooms by Page and the Personal Meeting ID as a Common User](#) API to query the cloud meeting room ID.

2. Call the API for creating a meeting and configure **vmrFlag** and **vmrID**.

(1) Set **vmrFlag** to **1**.

(2) Set **vmrID** to the cloud meeting ID obtained in step 1.

Figure 20-1 Parameters for creating a meeting using a cloud meeting room

vmrFlag	No	Integer	Body	Whether to use a cloud meeting room to hold the scheduled meeting. Default value: 0 . <ul style="list-style-type: none">• 0: Do not use any cloud meeting room.• 1: Use a cloud meeting room.
vmrID	No	String	Body	ID of the cloud meeting room used to hold the meeting. The value can contain up to 512 characters. <ul style="list-style-type: none">• If this parameter is specified, the ID is used to query cloud meeting rooms.• If this parameter is empty, all cloud meeting rooms of the user are queried. If a personal meeting ID is available, the personal meeting ID is used. If no personal meeting ID is available, the smallest cloud meeting room ID is used.

Figure 20-2 Value of vmrID

```
"data": [  
  {  
    "id": "8a8df6997383ff480173d7[REDACTED]",  
    "vmrId": "9391[REDACTED]",  
    "vmrName": "Cloud meeting room",  
    "vmrPkgName": "[REDACTED]",  
    "vmrPkgParties": 10,  
    "maxAudienceParties": 0,  
    "member": null,  
    "device": null,  
    "status": 2  
  },  
]
```

Using a Purchased Cloud Meeting Room

1. Use the enterprise administrator account to call the [Querying Cloud Meeting Rooms by Page as an Enterprise Administrator](#) API to query details and allocation information of a purchased cloud meeting room.
2. Allocate the cloud meeting room to a specific meeting user account. For details, see [Allocating a Cloud Meeting Room](#).
3. Log in to the system using the meeting user account, call the API for creating a meeting, and configure **vmrFlag** and **vmrID**.
 - (1) Set **vmrFlag** to **1**.
 - (2) Set **vmrID** to the cloud meeting ID obtained in step 1.

Figure 20-3 Parameters for creating a meeting using a cloud meeting room

vmrFlag	No	Integer	Body	<p>Whether to use a cloud meeting room to hold the scheduled meeting. Default value: 0.</p> <ul style="list-style-type: none"> 0: Do not use any cloud meeting room. 1: Use a cloud meeting room.
vmrID	No	String	Body	<p>ID of the cloud meeting room used to hold the meeting. The value can contain up to 512 characters.</p> <ul style="list-style-type: none"> If this parameter is specified, the ID is used to query cloud meeting rooms. If this parameter is empty, all cloud meeting rooms of the user are queried. If a personal meeting ID is available, the personal meeting ID is used. If no personal meeting ID is available, the smallest cloud meeting room ID is used.

Figure 20-4 Value of vmrID

```

"data": [
  {
    "id": "8a8df6997383ff480173d7",
    "vmrId": "9391",
    "vmrName": "Cloud meeting room",
    "vmrPkgName": "",
    "vmrPkgParties": 10,
    "maxAudienceParties": 0,
    "member": null,
    "device": null,
    "status": 2
  },

```

20.3 What Do I Do If App ID Authentication Failed?

App ID Authentication

1. Check whether the specified app ID and key match the application information.
2. Check whether the format of the **Authorization** value is correct.

Example: **HMAC-SHA256**

signature=bd4b79e16c15fc9274f3336f85a4847e6211c5fc34a1e16be8a35a9c15995915

Figure 20-5 Authorization parameter format

Headers

* Authorization ?

HMAC-SHA256 signature=bc4b79e16c15fc9274f3336f85a4

* Content-Type ?

application/json

3. Check whether the generated signature is correct. For details, see [Generation Algorithm](#).

Example: HMAC-SHA256 signature=HexEncode(HMAC256((appId + ":" + userId + ":" + expireTime + ":" + nonce), appKey))

NOTE

If the enterprise administrator is used for authentication, the **userId** parameter can be left blank, but the colon (:) must be reserved.

Example: HMAC-SHA256 signature=HexEncode(HMAC256((appId + ":" + ":" + expireTime + ":" + nonce), appKey))

4. Ensure that the parameters in the body are the same as those when the signature is generated.