Organizations

API Reference

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1 Before You Start

Welcome to *Organizations API Reference*. The Organizations service helps you govern multiple accounts within your organization. It enables you to consolidate multiple HUAWEI IDs into an organization that you create and centrally manage these accounts. You can use SCPs to control maximum available permissions for all accounts in your organization. This helps you better meet the service security and compliance requirements of your business.

This document describes how to use application programming interfaces (APIs) to perform operations on Organizations, such as creating, querying, deleting and updating. For details about all supported operations, see **API Overview**.

Before using an API to access the Organizations service, learn about the basic concepts of Organizations. For details, see **What Is Organizations?**

Organizations supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see **Calling APIs**.

Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of all services, see **Regions and Endpoints**.

Table 1-1 lists Organizations endpoints. Organizations is a global service with all data stored in the Global service project. All APIs of Organizations can be called using the endpoint of the Global region.

Table 1-1 Organizations endpoints

Region Name	Region ID	Endpoint
All	All	organizations.myhuaweicloud.com

Concepts

- Account

An account is created upon successful signing up. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity, which should not be used directly to perform routine management. To ensure account security, create Identity and Access Management (IAM) users and grant them permissions for routine management.

- Domain

  A domain is created upon successful signing up. The domain has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The domain is a payment entity, which should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.

- User

  An IAM user is created by an account in IAM to use cloud services. Each IAM user has its own identity credentials (password and access keys).

  API authentication requires information such as the account namedomain name, username, and password.

- Region

  A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.

  Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants.

  For details, see **Region and AZ**.

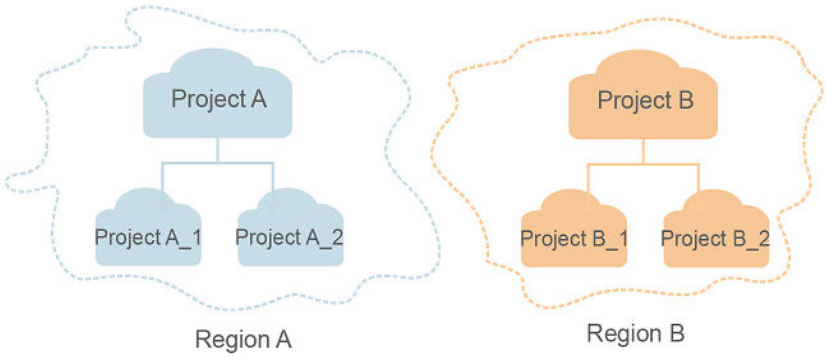
- AZ

  An AZ comprises of one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.

- Project

  A project corresponds to a region. Default projects are defined to group and physically isolate resources (including computing, storage, and network resources) across regions. Users can be granted permissions in a default project to access all resources under their accountsdomains in the region associated with the project. If you need more refined access control, create subprojects under a default project and create resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific subprojects.

Figure 1-1 Project isolation model



- Enterprise project

  Enterprise projects group and manage resources across regions. Resources in different enterprise projects are logically isolated. An enterprise project can contain resources of multiple regions, and resources can be added to or removed from enterprise projects.

  For details about enterprise projects and about how to obtain enterprise project IDs, see ***Enterprise Management User Guide***.

2 API Overview

Organization Management

Table 2-1 Organization management APIs

API	Description
Creating an organization	Creates an organization. The account calling this API automatically becomes the management account of the new organization. This API must be called using the credentials from the account that is to become the new organization's management account.
Getting organization information	Gets the information about the organization holding the account. All accounts in an organization can call this API.
Deleting an organization	Deletes an organization. This API must be called using the management account. The organization must be empty of accounts, organizational units (OUs), and policies.
Leaving the current organization	Leaves the current organization. This API can be called only from a member account in the organization. You can leave an organization as a member account only if the account is configured with the information required for operating as a standalone account. The account to leave must not be a delegated administrator account for any service enabled for your organization.
Listing roots of an organization	Lists the roots of an organization. This API can be called only from the organization's management account or from a delegated administrator account.

OU Management

Table 2-2 OU management APIs

API	Description
Creating an OU	Creates an OU in a root or a parent OU. An OU is a container of accounts. You can group accounts into an OU and apply policies to the OU based on your business requirements. This API can be called only from the organization's management account.
Listing OUs	Lists all OUs in an organization. If a parent OU is specified, this API will return a list of all the OUs contained in the specified parent OU. This API can be called only from the organization's management account or from a delegated administrator account.
Getting OU information	Gets OU information. This API can be called only from the organization's management account or from a delegated administrator account.
Renaming an OU	Renames the specified OU. After an OU is renamed, the following configurations remain unchanged: OU ID, its child OUs and accounts, and policies attached to the OU. This API can be called only from the organization's management account.
Deleting an OU	Deletes an OU from the root or another OU. Before deleting an OU, you must remove all member accounts from the OU or move them to another OU, and also remove the child OUs from the OU. This API can be called only from the organization's management account.

Account Management

Table 2-3 Account management APIs

API	Description
Creating an account	Creates an account. The generated account automatically becomes a member account of the organization holding the account that calls this API. This API can be called only from the organization's management account. The Organizations service creates the required service-linked agency and account-accessed agency in the new account.
Listing accounts in an organization	Lists all the accounts in an organization. This API can be called only from the organization's management account or from a delegated administrator account. If a parent OU is specified, this API will return a list of all the accounts contained in the specified parent OU.

API	Description
Closing an account	Closes an account that was created in the organization.
Getting account information	Gets the information about the specified account. This API can be called only from the organization's management account or from a delegated administrator account.
Removing the specified account	Removes the specified account from an organization. The removed account becomes a standalone account that is not a member account of any organization. This API can be called only from the organization's management account. You can remove an account from an organization only if the account is configured with the information required to operation as a standalone account. The account you want to remove must not be a delegated administrator account for any service enabled for your organization.
Moving an account	Moves an account from its current source location (root or OU) to the specified destination location (root or OU).
Inviting an account to join an organization	Sends an invitation to another account. The invited account will join your organization as a member account. This API can be called only from the organization's management account.
Querying CreateAccount requests in the specified state	Queries the CreateAccount requests in the specified state for an organization. This API can be called only from the organization's management account or from a delegated administrator account.
Getting the account creation status	Gets the status of the asynchronous request to create an account. This API can be called only from the organization's management account or from a delegated administrator account.

Invitation Management

Table 2-4 Invitation management APIs

API	Description
Getting invitation information	Gets the information about existing invitations in an organization. All accounts in an organization can call this API.
Accepting an invitation	Accepts an invitation to join an organization. After you accept an invitation, the invitation information continues to appear in the results of relevant APIs for 30 days.
Declining an invitation	Declines an invitation to join an organization. This sets the invitation state to Declined and deactivates the invitation. This API can be called only from the account that received the invitation. The invitation initiator cannot re-activate a declined invitation but can send a new invitation.
Canceling an invitation	Cancels an invitation. This sets the invitation state to Canceled. This API can be called only from the account that sent the invitation. After you cancel an invitation, the invitation information continues to appear in the results of relevant APIs for 30 days.
Listing received invitations	Lists all the invitations associated with the specified account. All accounts can call this API.
Listing sent invitations	Lists all the invitations sent by an organization. This API can be called only from the organization's management account or from a delegated administrator account.

Management of Trusted Services

Table 2-5 APIs for managing trusted services

API	Description
Enabling a trusted service	Enables the integration of a service (specified by **service_principal**) with Organizations. When you enable a trusted service, you allow the trusted service to create a service-linked agency in all accounts in your organization. This allows the trusted service to perform operations on your behalf in your organization and its accounts. This API can be called only from the organization's management account.

API	Description
Disabling a trusted service	Disables the integration of a service (specified by **service_principal**) with Organizations. When you disable integration, the service no longer can create a service-linked agency in new accounts in your organization. This means the service can no longer perform operations on your behalf on any accounts that newly joined your organization. The service can still perform operations in the already joined accounts until the service completes its clean-up from Organizations. This API can be called only from the organization's management account.
Listing trusted services	Returns a list of trusted services that are integrated with Organizations. This API can be called only from the organization's management account or from a delegated administrator account.

Management of Delegated Administrators

Table 2-6 APIs for managing delegated administrators

API	Description
Registering a delegated administrator	Registers the specified member account as a delegated administrator to manage the Organizations functions of a specified service. This API grants the delegated administrator the read-only access to Organizations service data. IAM users in the delegated administrator account still need IAM permissions to access and manage the specified service. This API can be called only from the organization's management account.
Deregistering a delegated administrator	Deregisters the existing delegated administrator for the specified service. This API can be called only from the organization's management account.
Listing services managed by a delegated administrator account	Lists the services for which the specified account is a delegated administrator. This API can be called only from the organization's management account or from a delegated administrator account.
Listing delegated administrator accounts	Lists the accounts that are designated as delegated administrators in an organization. This API can be called only from the organization's management account or from a delegated administrator account.

Policy Management

Table 2-7 Policy management APIs

API	Description
Creating a policy	Creates a policy of the specified type. This API can be called only from the organization's management account.
Listing policies	Lists all policies in an organization. If a resource ID (such as an OU ID or account ID) is specified, this API will return a list of policies attached to the resource. This API can be called only from the organization's management account or from a delegated administrator account.
Getting policy information	Gets the information about the specified policy. This API can be called only from the organization's management account or from a delegated administrator account.
Updating a policy	Updates the name, description, or content of a policy. If no parameter is specified, the policy remains unchanged. The policy type cannot be changed. This API can be called only from the organization's management account.
Deleting a policy	Deletes the specified policy from an organization. Before calling this API, you must detach the policy from all OUs, roots, and accounts. This API can be called only from the organization's management account.
Enabling a policy type for a root	Enables a policy type for the root of an organization. After you enable a policy type for the root, you can attach the policies of this type to the root, or any OUs or accounts under the root. This is an asynchronous request. You can use **ListRoots** to view the status of the policy types for the specified root. This API can be called only from the organization's management account.
Disabling a policy type in a root	Disables a policy type in a root. A policy of a specific type can be attached to entities in a root only if that policy type is enabled in the root. After calling this API, you can no longer attach any policies of the specified type to the root or any OU or account in the root. This is an asynchronous request. You can use **ListRoots** to view the status of the policy types for the specified root. This API can be called only from the organization's management account.
Attaching a policy to a principal	Attaches a policy to a root, OU, or individual account. This API can be called only from the organization's management account.
Detaching a policy from a principal	Detaches a policy from a root, OU, or account. This API can be called only from the organization's management account.

API	Description
Listing entities for the specified policy	Lists all the entities (roots, OUs, and accounts) that the specified policy is attached to. This API can be called only from the organization's management account or from a delegated administrator account.

Tag Management

Table 2-8 Tag management APIs

API	Description
Listing tags for the specified resource	Lists the tags that are attached to the specified resource. You can attach tags to the following resources in Organizations: accounts, OUs, roots, and policies. This API can be called only from the organization's management account or from a delegated administrator account.
Adding tags to the specified resource	Adds one or more tags to the specified resource. You can attach tags to the following resources in Organizations: accounts, OUs, roots, and policies. This API can be called only from the organization's management account.
Removing tags from the specified resource	Removes any tags with the specified key from the specified resource. You can detach tags from the following resources in Organizations: accounts, OUs, roots, and policies. This API can be called only from the organization's management account.
Listing tags for the specified resource	Lists the tags that are attached to the specified resource. You can attach tags to any of the following organization resources: accounts, OUs, roots, and policies. This API can be called only from the organization's management account or from a delegated administrator account.
Adding tags to the specified resource	Adds one or more tags to the specified resource. You can attach tags to any of the following organization resources: accounts, OUs, roots, and policies. This API can be called only from the organization's management account.
Removing tags from the specified resource	Removes any tags with the specified key from the specified resource. You can attach tags to any of the following organization resources: accounts, OUs, roots, and policies. This API can be called only from the organization's management account.

API	Description
Listing instances by resource type and tag	Lists instances by resource type and tag.
Querying the number of instances by resource type and tag	Queries the number of instances by resource type and tag.
Querying resource tags	Queries the tags attached to resources of the specified type.

Other APIs

Table 2-9 Other Organizations APIs

API	Description
Querying the effective policy	Queries the effective policy of a specific type for the specified account. This API cannot be used to query the information about service control policies. This API can be called only from the organization's management account or from a delegated administrator account.
Listing entities in an organization	Lists all the roots, OUs, and accounts in an organization. This API can be called only from the organization's management account or from a delegated administrator account. You can filter entities you want to view by specifying the parent OU ID and child OU ID.
Listing cloud services integrable with Organizations	Lists all cloud services that can be integrated with Organizations. After a service on this list is enabled with trusted access, that service becomes a trusted service for Organizations.
Listing resource types that support tag policy enforcement	Lists the resource types that support enforcement with tag policies.

API	Description
Listing organization quotas	Lists the quotas of an organization. This API can be called only from the organization's management account or from a delegated administrator account.

3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request and uses the API for **querying organization information** as an example to demonstrate how to call an API. This API can be called by any account in an organization.

Request URI

A request URI is in the following format:

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

Table 3-1 Parameter description

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from **Regions and Endpoints**. For example, the endpoint of Organizations is **organizations.myhuaweicloud.com**.
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API for **querying organization information** is **/v1/organizations**.
query-string	An optional query parameter. Ensure that a question mark (**?**) is included before each query parameter that is in the format of **Parameter name = Parameter value**. For example, **?limit=10** indicates that a maximum of 10 data records will be queried.

For example, to **query organization information**, obtain the Organizations endpoint (organizations.myhuaweicloud.com) and the resource-path (/v1/

organizations) in the URI of the API used to **query organization information**. Then, construct the URI as follows:

NOTE

To simplify the URI display in this document, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

Request Methods

The HTTP protocol defines the following request methods that can be used to send a request to the server:

- **GET**: requests the server to return specified resources.
- **PUT**: requests the server to update specified resources.
- **POST**: requests the server to add resources or perform special operations.
- **DELETE**: requests the server to delete specified resources, for example, an object.
- **HEAD**: requests the server to return the response header only.
- **PATCH**: requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API used to **query organization information**, the request method is **GET**. The request is as follows:

```
GET https://organizations.myhuaweicloud.com/v1/organizations
```

Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request for the authentication information, add **Content-Type**, which specifies the request body type.

Common request header fields are as follows:

- **Content-Type**: specifies the type or format of the message body. This field is mandatory and its default value is **application/json**.
- **Authorization**: specifies the signature information mandatory in the request. For details about AK/SK-based authentication, see **AK/SK-based Authentication**.
- **X-Sdk-Date**: specifies the time when the request was sent, for example, **20221107T020014Z**. This field is mandatory.
- **Host**: specifies the host address, for example, **organizations.myhuaweicloud.com**. This field is mandatory.

  NOTE

  APIs support authentication using access key ID/secret access key (AK/SK). During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request. For more information, see **AK/SK-based Authentication**.

For example, the request for the API used to **query organization information** is as follows:

```
GET https://organizations.myhuaweicloud.com/v1/organizations
content-type: application/json
X-Sdk-Date: 20230330T021902Z
host: organizations.myhuaweicloud.com
Authorization: SDK-HMAC-SHA256 Access=xxxxxxxxxxxxxxxxxxx, SignedHeaders=content-type;host;x-sdk-date, Signature=xxxxxxxxxxxxxxxxxxxx
```

(Optional) Request Body

The body of a request is often sent in a structured format as specified in the **Content-Type** header field. The request body transfers content except the request header.

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the **GET** and **DELETE** methods.

Initiating a Request

You can send the request to call an API through **curl**, **Postman**, or coding.

3.2 Authentication

AK/SK-based authentication is used for calling APIs. Specifically, requests are encrypted using the access key ID (AK) and secret access key (SK) to provide higher security.

AK/SK-based Authentication

NOTE

- AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.
- You can use the AK/SK in a permanent or temporary access key. The **X-Security-Token** field must be configured if the AK/SK in a temporary access key is used, and the field value is **security_token** of the temporary access key.

In AK/SK-based authentication, AK/SK is used to sign requests and the signature is then added to the request headers for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or using the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see **API Request Signing Guide**.

NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

3.3 Response

After sending a request, you will receive a response, including a status code, response header, and response body.

Status Code

A status code is a group of digits ranging from 1xx to 5xx. It indicates the status of a response. For more information, see **Status Codes**.

For example, if status code **200** is returned for calling the API used to **query organization information**, the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-type**.

Table 3-2 describes common response headers.

Table 3-2 Common response headers

Header	Description
Content-Type	Type of the resource content. Type: string No default value.
Connection	Whether the connection to the server is a long connection or a short connection. Type: string Valid values: keep-alive | close No default value.
Date	Date when the server responded to the request. Type: string No default value.
X-Request-Id	Uniquely identifies the request. The value is generated by the service and can be used for troubleshooting. Type: string No default value.

Response Body

The body of a response is often returned in structured format as specified in the **Content-type** header field. The response body transfers content except the response header.

For example, the response body for the API used to **query organization information** is as follows:

```
{
  "organization" : {
        "id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
        "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:organization:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
        "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
        "management_account_name" : "xxxx",
        "created_at" : "2022-08-24T06:31:46Z"
    }
}
```

If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

```
{
    "error_msg": "bad request for checking permission",
    "error_code": "Organizations.1008"
}
```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

4 APIs

4.1 Managing Organizations

4.1.1 Creating an Organization

Function

This API is used to create an organization. The account whose user is calling this API automatically becomes the management account of the new organization. This API must be called using the credentials from the account that is to become the new organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations

Request Parameters

Table 4-1 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 201

Table 4-2 Response body parameters

Parameter	Type	Description
organization	**OrganizationDto** object	A structure that contains details about an organization. The accounts are organized hierarchically under organizational units (OUs) in the organization and their access permissions are controlled by policies.

Table 4-3 OrganizationDto

Parameter	Type	Description
id	String	Unique ID of an organization.
urn	String	Uniform resource name of the organization.
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
created_at	String	Time when the organization was created.

Example Requests

Creating an organization

```
POST https://{endpoint}/v1/organizations
```

Example Responses

Status code: 201

Successful.

```
{
  "organization" : {
    "id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:organization:o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "created_at" : "2022-08-24T06:31:46Z"
  }
}
```


Status Codes

Status Code	Description
201	Successful.

Error Codes

See **Error Codes**.

4.1.2 Getting Organization Information

Function

This API is used to get the information about the organization holding the account. It can be called by all accounts in an organization.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations

Request Parameters

Table 4-4 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-5 Response body parameters

Parameter	Type	Description
organization	**OrganizationDto** object	A structure that contains details about an organization. The accounts are organized hierarchically under organizational units (OUs) in the organization and their access permissions are controlled by policies.

Table 4-6 OrganizationDto

Parameter	Type	Description
id	String	Unique ID of an organization.
urn	String	Uniform resource name of the organization.
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
created_at	String	Time when the organization was created.

Example Requests

Getting Organization Information

```
GET https://{endpoint}/v1/organizations
```

Example Responses

Status code: 200

Successful

```
{
  "organization" : {
    "id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:organization:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "created_at" : "2022-08-24T06:31:46Z"
  }
}
```


Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.1.3 Deleting an Organization

Function

This API is used to delete an organization. You must use the management account call this API. The organization must be empty of accounts, organizational units (OUs), and policies.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

DELETE https://{endpoint}/v1/organizations

Request Parameters

Table 4-7 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 204

Successful.

None

Example Requests

Deleting an organization

```
DELETE https://{endpoint}/v1/organizations
```

Example Responses

None

Status Codes

Status Code	Description
204	Successful.

Error Codes

See **Error Codes**.

4.1.4 Leaving an Organization

Function

This API is used to leave the current organization. It can be called only from a member account in the organization. You can leave an organization as a member account only if the account is configured with the information required for operating as a standalone account. The account to leave must not be a delegated administrator account for any cloud service enabled for your organization.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/leave

Request Parameters

Table 4-8 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Leaving an organization

```
POST https://{endpoint}/v1/organizations/leave
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.1.5 Listing the Roots of an Organization

Function

This API is used to list the roots of an organization. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/roots

Table 4-9 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-10 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-11 Response body parameters

Parameter	Type	Description
roots	Array of **RootDto** objects	List of roots defined in an organization.
page_info	**PageInfoDto** object	Pagination information.

Table 4-12 RootDto

Parameter	Type	Description
id	String	Unique ID of a root.
urn	String	Uniform resource name of the root.
name	String	Root name.

Parameter	Type	Description
policy_types	Array of **PolicyTypeSummaryDto** objects	Policy types that are currently enabled for the root. The policies of these types can be attached to the root or to its OUs or accounts.
created_at	String	Time when a root was created.

Table 4-13 PolicyTypeSummaryDto

Parameter	Type	Description
status	String	Status of the policy type associated with a root. To attach a policy of a specified type to a root or an OU or account in the root, the policy must be available in the organization and enabled for the root.
type	String	Name of a policy type. It can be service_control_policy or tag_policy.

Table 4-14 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing the roots of an organization

```
GET https://{endpoint}/v1/organizations/roots
```

Example Responses

Status code: 200

Successful.


```
{
  "roots" : {
    "id" : "r-rpjghpbmumu2hffplsj5edt1z3vybb94",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:root:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/r-rpjghpbmumu2hffplsj5edt1z3vybb94",
    "name" : "root",
    "policy_types" : [ {
      "status" : "enabled",
      "type" : "service_control_policy"
    } ],
    "created_at" : "2022-08-24T06:31:46Z"
  },
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.2 Managing OUs

4.2.1 Creating an OU

Function

This API is used to create an OU in a root or a parent OU. An OU is a container of accounts. It enables you to group your accounts to apply policies based on your business requirements. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/organizational-units

Request Parameters

Table 4-15 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-16 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name to be assigned to the new OU.
parent_id	Yes	String	Unique ID of the root or OU in which you want to create a new OU.
tags	No	Array of **TagDto** objects	List of tags you want to attach to the new OU.

Table 4-17 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 201

Table 4-18 Response body parameters

Parameter	Type	Description
organizational_unit	**OrganizationalUnitDto** object	Details about a newly created organizational unit (OU).

Table 4-19 OrganizationalUnitDto

Parameter	Type	Description
id	String	Unique ID of an OU.
urn	String	Uniform resource name of the OU.
name	String	OU name.
created_at	String	Time when the OU was created.

Example Requests

Creating an OU

```
POST https://{endpoint}/v1/organizations/organizational-units

{
  "name" : "autoOU0923152728692gqQc",
  "parent_id" : "ou-kz0blhbszb6w9a2lzb",
  "tags" : [ {
    "key" : "keystring",
    "value" : "keystring"
  } ]
}
```

Example Responses

Status code: 201

Successful

```
{
  "organizational_unit" : {
    "id" : "ou-fi0rv9jbjgc6nifokh65jjo8c24fnujv",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:ou:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/ou-fi0rv9jbjgc6nifokh65jjo8c24fnujv",
    "name" : "autoOU0923152728692gqQc",
    "created_at" : "2022-09-23T07:27:28Z"
  }
}
```

Status Codes

Status Code	Description
201	Successful

Error Codes

See **Error Codes**.

4.2.2 Listing OUs

Function

This API is used to list all OUs in an organization. If a parent OU is specified, this API will return a list of all the OUs contained in the specified parent OU. This API can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/organizational-units

Table 4-20 Query Parameters

Parameter	Mandatory	Type	Description
parent_id	No	String	Unique ID of the parent node (root OU or another OU).
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-21 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-22 Response body parameters

Parameter	Type	Description
organizational_units	Array of **OrganizationalUnitDto** objects	List of OUs in an organization.
page_info	**PageInfoDto** object	Pagination information.

Table 4-23 OrganizationalUnitDto

Parameter	Type	Description
id	String	Unique ID of an OU.
urn	String	Uniform resource name of the OU.
name	String	OU name.
created_at	String	Time when the OU was created.

Table 4-24 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing OUs

```
GET https://{endpoint}/v1/organizations/organizational-units
```

Example Responses

Status code: 200

Successful


```
{
  "organizational_units" : [ {
    "id" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:ou:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "name" : "autoOU0923152729270Pkgk",
    "created_at" : "2022-09-23T07:27:28Z"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.2.3 Getting OU Information

Function

This API is used to get OU information. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/organizational-units/{organizational_unit_id}

Table 4-25 Path Parameters

Parameter	Mandatory	Type	Description
organizational_unit_id	Yes	String	Unique ID of an OU.

Request Parameters

Table 4-26 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-27 Response body parameters

Parameter	Type	Description
organizational_unit	**OrganizationalUnitDto** object	Details about a newly created organizational unit (OU).

Table 4-28 OrganizationalUnitDto

Parameter	Type	Description
id	String	Unique ID of an OU.
urn	String	Uniform resource name of the OU.
name	String	OU name.
created_at	String	Time when the OU was created.

Example Requests

Getting OU Information

```
GET https://{endpoint}/v1/organizations/organizational-units/{organizational_unit_id}
```

Example Responses

Status code: 200

Successful

```
{
  "organizational_unit" : {
    "id" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:ou:o-
```



```
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "name" : "autoOU0923152729270Pkgk",
    "created_at" : "2022-09-23T07:27:28Z"
  }
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.2.4 Renaming an OU

Function

This API is used to rename the specified OU. After an OU is renamed, its ID does not change, its child OUs and accounts remain in place, and any attached policies of the OU remain unchanged. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

PATCH https://{endpoint}/v1/organizations/organizational-units/{organizational_unit_id}

Table 4-29 Path Parameters

Parameter	Mandatory	Type	Description
organizational_unit_id	Yes	String	Unique ID of an OU.

Request Parameters

Table 4-30 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-31 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name to be assigned to the new OU.

Response Parameters

Status code: 200

Table 4-32 Response body parameters

Parameter	Type	Description
organizational_unit	**OrganizationalUnitDto** object	Details about a newly created organizational unit (OU).

Table 4-33 OrganizationalUnitDto

Parameter	Type	Description
id	String	Unique ID of an OU.
urn	String	Uniform resource name of the OU.
name	String	OU name.
created_at	String	Time when the OU was created.

Example Requests

Renaming an OU

```
PATCH https://{endpoint}/v1/organizations/organizational-units/{organizational_unit_id}
```



```
{
  "name" : "autoOU0923152728692gqQc"
}
```

Example Responses

Status code: 200

Successful

```
{
  "organizational_unit" : {
    "id" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:ou:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/ou-fi0rv9jbjgc6nifokh65jjo8c24fnujv",
    "name" : "autoOU0923152729270Pkgk",
    "created_at" : "2022-09-23T07:27:28Z"
  }
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.2.5 Deleting an OU

Function

This API is used to delete an OU from the root or another OU. Before deleting an OU, you must remove all member accounts from the OU or move them to another OU, and also remove the child OUs from the OU. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

DELETE https://{endpoint}/v1/organizations/organizational-units/{organizational_unit_id}

Table 4-34 Path Parameters

Parameter	Mandatory	Type	Description
organizational_unit_id	Yes	String	Unique ID of an OU.

Request Parameters

Table 4-35 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 204

Successful

None

Example Requests

Deleting an OU

```
DELETE https://{endpoint}/v1/organizations/organizational-units/{organizational_unit_id}
```

Example Responses

None

Status Codes

Status Code	Description
204	Successful

Error Codes

See **Error Codes**.

4.3 Managing Accounts

4.3.1 Creating an Account (Recommended)

Function

This API is used to create an account without specifying the mobile number and email address. The created account automatically becomes a member of the organization holding the account that calls this API. It can be called only from the organization's management account. The Organizations service creates the required service-linked agency and account access agency in the new account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v2/organizations/accounts

Request Parameters

Table 4-36 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-37 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Account name.
agency_name	No	String	Agency name.
description	No	String	Description.
tags	No	Array of **TagDto** objects	List of tags you want to attach to the new account.

Table 4-38 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 202

Table 4-39 Response body parameters

Parameter	Type	Description
create_account_status	**CreateAccountStatusDto** object	States of CreateAccount requests for an organization.

Table 4-40 CreateAccountStatusDto

Parameter	Type	Description
account_id	String	Unique ID of the newly created account if any.
account_name	String	Account name.
completed_at	String	Date and time when the account was created and the request was completed.
created_at	String	Date and time when the CreateAccount request was made.
id	String	Unique ID of a request. You can get this value from the response to the initial CreateAccount request.
state	String	Status of the asynchronous request for creating an account.
failure_reason	String	Reason for a request failure.
failure_detail_msg	**failure_detail_msg** object	Detailed reason why the request fails.

Table 4-41 failure_detail_msg

Parameter	Type	Description
error_msg	String	Transparently Transmitting Error Codes
encoded_authorization_message	String	Transparently Transmitting Authentication Failure Information

Example Requests

Creating an account

```
POST https://{hostname}/v1/organizations/accounts

{
  "name" : "C9Qzukfn6FIyxAmC3dQclrwZW34UDu_rPSRrCQ4aGFm0-r1zC2RDHt5oHA-aY21B",
  "tags" : [ {
    "key" : "keystring",
    "value" : "valuestring"
  } ]
}
```

Example Responses

Status code: 202

Successful

```
{
  "create_account_status" : {
    "account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "account_name" : "paas_iam_573331",
    "completed_at" : "2022-08-24T06:41:15Z",
    "created_at" : "2022-08-24T06:41:15Z",
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "state" : "in_progress",
    "failure_reason" : "string"
  }
}
```

Status Codes

Status Code	Description
202	Successful

Error Codes

See **Error Codes**.

4.3.2 Creating an Account

Function

This API is used to create an account. The generated account automatically becomes a member account of the organization holding the account that calls this API. This API can be called only from the organization's management account. The Organizations service creates the required service-linked agency and account-accessed agency in the new account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/accounts

Request Parameters

Table 4-42 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-43 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Account name.
email	No	String	Email address. This parameter is mandatory when an account is created at the Huawei Cloud International website.
phone	No	String	Mobile number. This parameter is mandatory when an account is created at the Huawei Cloud Chinese Mainland website.
agency_name	No	String	Agency name.

Parameter	Mandatory	Type	Description
description	No	String	Description.
tags	No	Array of **TagDto** objects	List of tags you want to attach to the new account.

Table 4-44 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 202

Table 4-45 Response body parameters

Parameter	Type	Description
create_account_status	**CreateAccountStatusDto** object	States of CreateAccount requests for an organization.

Table 4-46 CreateAccountStatusDto

Parameter	Type	Description
account_id	String	Unique ID of the newly created account if any.
account_name	String	Account name.
completed_at	String	Date and time when the account was created and the request was completed.
created_at	String	Date and time when the CreateAccount request was made.

Parameter	Type	Description
id	String	Unique ID of a request. You can get this value from the response to the initial CreateAccount request.
state	String	Status of the asynchronous request for creating an account.
failure_reason	String	Reason for a request failure.
failure_detail_msg	failure_detail_msg object	Detailed reason why the request fails.

Table 4-47 failure_detail_msg

Parameter	Type	Description
error_msg	String	Transparently Transmitting Error Codes
encoded_authorization_message	String	Transparently Transmitting Authentication Failure Information

Example Requests

Creating an account

```
POST https://{endpoint}/v1/organizations/accounts

{
  "name" : "C9Qzukfn6FIyxAmC3dQclrwZW34UDu_rPSRrCQ4aGFm0-r1zC2RDHt5oHA-aY21B",
  "tags" : [ {
    "key" : "keystring",
    "value" : "valuestring"
  } ]
}
```

Example Responses

Status code: 202

Successful

```
{
  "create_account_status" : {
    "account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "account_name" : "paas_iam_573331",
    "completed_at" : "2022-08-24T06:41:15Z",
    "created_at" : "2022-08-24T06:41:15Z",
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "state" : "in_progress",
    "failure_reason" : "string"
  }
}
```


Status Codes

Status Code	Description
202	Successful

Error Codes

See **Error Codes**.

4.3.3 Listing Accounts in an Organization

Function

This API is used to list all the accounts in an organization. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service. If a parent OU is specified, this API will return a list of all the accounts contained in the specified parent OU.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/accounts

Table 4-48 Query Parameters

Parameter	Mandatory	Type	Description
parent_id	No	String	Unique ID of the parent node (root OU or another OU).
with_register_contact_info	No	Boolean	Whether to return email addresses and mobile numbers associated with the account. If True is returned, the maximum number of entries allowed is 200.
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-49 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-50 Response body parameters

Parameter	Type	Description
accounts	Array of **AccountDto** objects	List of accounts in an organization.
page_info	**PageInfoDto** object	Pagination information.

Table 4-51 AccountDto

Parameter	Type	Description
id	String	Unique ID of an account.
urn	String	Uniform resource name of the account.
join_method	String	How an account joined an organization.
status	String	Account status. It can be active, suspended, or pending_closure.
joined_at	String	Date when an account joined an organization.
name	String	Account name.
mobile_phone	String	Mobile number.
intl_number_prefix	String	Prefix of a mobile number.

Parameter	Type	Description
email	String	Email address associated with the account.
description	String	Description.

Table 4-52 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing Accounts in an Organization

```
GET https://{endpoint}/v1/organizations/accounts
```

Example Responses

Status code: 200

Successful.

```
{
  "accounts" : [ {
    "id" : "05261f923e80d3890f33c0056e9b3f80",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:account:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/05261f923e80d3890f33c0056e9b3f80",
    "join_method" : "invited",
    "joined_at" : "2022-08-24T06:41:15Z",
    "name" : "paas_iam_573331",
    "status" : "active",
    "mobile_phone" : "null,",
    "intl_number_prefix" : "null,",
    "email" : null
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.3.4 Closing an Account

Function

This API is used to close an account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/accounts/{account_id}/close

Table 4-53 Path Parameters

Parameter	Mandatory	Type	Description
account_id	Yes	String	Unique ID of an account.

Request Parameters

Table 4-54 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Closing an account

```
POST https://{endpoint}/v1/organizations/accounts/{account_id}/close
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.3.5 Getting Account Information

Function

This API is used to get the information about the specified account. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/accounts/{account_id}

Table 4-55 Path Parameters

Parameter	Mandatory	Type	Description
account_id	Yes	String	Unique ID of an account.

Table 4-56 Query Parameters

Parameter	Mandatory	Type	Description
with_register_contact_info	No	Boolean	Whether to return email addresses and mobile numbers associated with the account. If True is returned, the maximum number of entries allowed is 200.

Request Parameters

Table 4-57 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-58 Response body parameters

Parameter	Type	Description
account	**AccountDto** object	Information about the member accounts in an organization.

Table 4-59 AccountDto

Parameter	Type	Description
id	String	Unique ID of an account.
urn	String	Uniform resource name of the account.
join_method	String	How an account joined an organization.
status	String	Account status. It can be active, suspended, or pending_closure.

Parameter	Type	Description
joined_at	String	Date when an account joined an organization.
name	String	Account name.
mobile_phone	String	Mobile number.
intl_number_prefix	String	Prefix of a mobile number.
email	String	Email address associated with the account.
description	String	Description.

Example Requests

Getting Account Information

```
GET https://{endpoint}/v1/organizations/accounts/{account_id}
```

Example Responses

Status code: 200

Successful.

```
{
  "account" : {
    "id" : "05261f923e80d3890f33c0056e9b3f80",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:account:o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv/05261f923e80d3890f33c0056e9b3f80",
    "join_method" : "invited",
    "status" : "active",
    "joined_at" : "2022-08-24T06:41:15Z",
    "name" : "paas_iam_573331",
    "description" : "string",
    "mobile_phone" : "null,",
    "intl_number_prefix" : "null,",
    "email" : null
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.3.6 Updating an Account

Function

This API is used to update an account. It can be called only from the management account of the organization.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

PATCH https://{endpoint}/v1/organizations/accounts/{account_id}

Table 4-60 Path Parameters

Parameter	Mandatory	Type	Description
account_id	Yes	String	Unique ID of an account.

Request Parameters

Table 4-61 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-62 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description. If you set the parameter to an empty string, the description is empty. If you set it to NULL, no operations are required.

Response Parameters

Status code: 200

Table 4-63 Response body parameters

Parameter	Type	Description
account	**AccountDto** object	Information about the member accounts in an organization.

Table 4-64 AccountDto

Parameter	Type	Description
id	String	Unique ID of an account.
urn	String	Uniform resource name of the account.
join_method	String	How an account joined an organization.
status	String	Account status. It can be active, suspended, or pending_closure.
joined_at	String	Date when an account joined an organization.
name	String	Account name.
mobile_phone	String	Mobile number.
intl_number_prefix	String	Prefix of a mobile number.
email	String	Email address associated with the account.
description	String	Description.

Example Requests

Updating an account

```
PATCH https://{endpoint}/v1/organizations/accounts/{account_id}

{
  "description" : "string"
}
```

Example Responses

Status code: 200

Successful

```
{
  "account" : {
    "id" : "05261f923e80d3890f33c0056e9b3f80",
```



```
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:account:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/05261f923e80d3890f33c0056e9b3f80",
    "join_method" : "invited",
    "status" : "active",
    "joined_at" : "2022-08-24T06:41:15Z",
    "name" : "paas_iam_573331",
    "description" : "string"
  }
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.3.7 Removing the Specified Account

Function

This API is used to remove the specified account from an organization. The removed account becomes a standalone account that is not a member account of any organization. This API can be called only from the organization's management account. You can remove an account from an organization only if the account is configured with the information required to operation as a standalone account. The account you want to remove must not be a delegated administrator account for any cloud service enabled for your organization.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/accounts/{account_id}/remove

Table 4-65 Path Parameters

Parameter	Mandatory	Type	Description
account_id	Yes	String	Unique ID of an account.

Request Parameters

Table 4-66 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Removing the Specified Account

```
POST https://{endpoint}/v1/organizations/accounts/{account_id}/remove
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.3.8 Moving an Account

Function

This API is used to move an account from its current source location (root or OU) to the specified destination location (root or OU).

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/accounts/{account_id}/move

Table 4-67 Path Parameters

Parameter	Mandatory	Type	Description
account_id	Yes	String	Unique ID of an account.

Request Parameters

Table 4-68 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-69 Request body parameters

Parameter	Mandatory	Type	Description
source_parent_id	Yes	String	Unique ID of the root or OU which you want to move the account from.
destination_parent_id	Yes	String	Unique ID of the root or OU which you want to move the account to.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Moving an account

```
POST https://{endpoint}/v1/organizations/accounts/{account_id}/move

{
  "source_parent_id" : "r-upg5m6wbw042",
  "destination_parent_id" : "ou-a6bjn4hat8o2txs5wduj19unte80"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.3.9 Inviting an Account to Join an Organization

Function

This API is used to send an invitation to another account. The invited account will join your organization as a member account. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/accounts/invite

Request Parameters

Table 4-70 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-71 Request body parameters

Parameter	Mandatory	Type	Description
target	Yes	**TargetDto** object	ID of the account that you want to invite to join your organization.
notes	Yes	String	Additional information that you want to include in the email to the recipient account owner.
tags	No	Array of **TagDto** objects	List of tags you want to attach to the new account.

Table 4-72 TargetDto

Parameter	Mandatory	Type	Description
type	Yes	String	Target type. It can be account ID or name.
entity	Yes	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Table 4-73 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.

Parameter	Mandatory	Type	Description
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 200

Table 4-74 Response body parameters

Parameter	Type	Description
handshake	HandshakeDto object	Information to be exchanged between two accounts (sender and receiver) for establishing a secure relationship. For example, when a management account (the sender) invites another account (the receiver) to join its organization, the two accounts exchange information as a series of invitation (handshake) requests and responses, which are contained in this structure.

Table 4-75 HandshakeDto

Parameter	Type	Description
id	String	Unique ID of an invitation (handshake). The originating account creates the ID when initiating the invitation (handshake).
urn	String	Uniform resource name of the invitation (handshake).
updated_at	String	Date and time when an invitation (handshake) request was accepted, canceled, declined, or expired.
created_at	String	Date and time when an invitation (handshake) request was made.
expired_at	String	The date and time the invitation (handshake) expires.
management_account_id	String	Unique ID of the organization's management account.

Parameter	Type	Description
management_account_name	String	Name of the organization's management account.
organization_id	String	Unique ID of an organization.
notes	String	Additional information that you want to include in the email to the recipient account owner.
target	**TargetDto** object	ID of the account that you want to invite to join your organization.
status	String	Current state of the invitation (handshake). It can be pending, accepted, cancelled, declined, or expired.

Table 4-76 TargetDto

Parameter	Type	Description
type	String	Target type. It can be account ID or name.
entity	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Example Requests

Inviting an account to join an organization

```
POST https://{endpoint}/v1/organizations/accounts/invite

{
  "target" : {
    "type" : "account",
    "entity" : "05c734152f00d4200f2bc0179ac6c5e0"
  },
  "notes" : "test-notes",
  "tags" : [ {
    "key" : "keystring",
    "value" : "valuestring"
  } ]
}
```

Example Responses

Status code: 200

Successful.

```
{
  "handshake" : {
```



```
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:policy:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/service_control_policy/p-b4wpejd02o66g0pvfinvsatp4t9krfum",
    "updated_at" : "2022-08-25T08:11:53Z",
    "created_at" : "2022-08-25T08:11:20Z",
    "expired_at" : "2022-09-08T08:11:20Z",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "organization_id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "notes" : "test-notes",
    "target" : {
      "type" : "account",
      "entity" : "05c734152f00d4200f2bc0179ac6c5e0"
    },
    "status" : "pending"
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.3.10 Querying Account Creation Requests in Specified State

Function

This API is used to query the account creation requests in the specified state for an organization. This API can be called only from the organization's management account or a delegated administrator account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/create-account-status

Table 4-77 Query Parameters

Parameter	Mandatory	Type	Description
states	No	Array of strings	List of one or more states that you want to include in the response. If this parameter is not present, all requests are included in the response. It can be **in_progress**, **succeeded**, or **failed**.
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-78 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-79 Response body parameters

Parameter	Type	Description
create_account_statuses	Array of **CreateAccountStatusDto** objects	List of objects with details about the requests.
page_info	**PageInfoDto** object	Pagination information.

Table 4-80 CreateAccountStatusDto

Parameter	Type	Description
account_id	String	Unique ID of the newly created account if any.
account_name	String	Account name.
completed_at	String	Date and time when the account was created and the request was completed.
created_at	String	Date and time when the CreateAccount request was made.
id	String	Unique ID of a request. You can get this value from the response to the initial CreateAccount request.
state	String	Status of the asynchronous request for creating an account.
failure_reason	String	Reason for a request failure.
failure_detail_msg	**failure_detail_msg** object	Detailed reason why the request fails.

Table 4-81 failure_detail_msg

Parameter	Type	Description
error_msg	String	Transparently Transmitting Error Codes
encoded_authorization_message	String	Transparently Transmitting Authentication Failure Information

Table 4-82 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Querying account creation requests in the specified state

```
GET https://{endpoint}/v1/organizations/create-account-status
```

Example Responses

Status code: 200

Successful

```
{
  "create_account_statuses" : [ {
    "account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "account_name" : "paas_iam_573331",
    "completed_at" : "2022-08-24T06:41:15Z",
    "created_at" : "2022-08-24T06:41:15Z",
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "state" : "in_progress",
    "failure_reason" : "string"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.3.11 Querying Account Creation Status

Function

This API is used to query the status of the asynchronous request to create an account. This API can be called only from the organization's management account or a delegated administrator account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/create-account-status/{create_account_status_id}

Table 4-83 Path Parameters

Parameter	Mandatory	Type	Description
create_account_status_id	Yes	String	ID value that uniquely identifies a CreateAccount request.

Request Parameters

Table 4-84 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-85 Response body parameters

Parameter	Type	Description
create_account_status	**CreateAccountStatusDto** object	States of CreateAccount requests for an organization.

Table 4-86 CreateAccountStatusDto

Parameter	Type	Description
account_id	String	Unique ID of the newly created account if any.
account_name	String	Account name.
completed_at	String	Date and time when the account was created and the request was completed.

Parameter	Type	Description
created_at	String	Date and time when the CreateAccount request was made.
id	String	Unique ID of a request. You can get this value from the response to the initial CreateAccount request.
state	String	Status of the asynchronous request for creating an account.
failure_reason	String	Reason for a request failure.
failure_detail_msg	failure_detail_msg object	Detailed reason why the request fails.

Table 4-87 failure_detail_msg

Parameter	Type	Description
error_msg	String	Transparently Transmitting Error Codes
encoded_authorization_message	String	Transparently Transmitting Authentication Failure Information

Example Requests

Querying account creation status

```
GET https://{endpoint}/v1/organizations/create-account-status/{create_account_status_id}
```

Example Responses

Status code: 200

Successful

```
{
  "create_account_status" : {
    "account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "account_name" : "paas_iam_573331",
    "completed_at" : "2022-08-24T06:41:15Z",
    "created_at" : "2022-08-24T06:41:15Z",
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "state" : "in_progress",
    "failure_reason" : "string"
  }
}
```


Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.3.12 Querying CloseAccount Requests in Specified State

Function

This API is used to query the CloseAccount requests in the specified state for an organization. This API can be called only from the organization's management account or a delegated administrator account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/close-account-status

Table 4-88 Query Parameters

Parameter	Mandatory	Type	Description
states	No	Array of strings	List of one or more states that you want to include in the response. If this parameter is not present, all requests are included in the response. It can be **pending_closure** or **suspended**.

Request Parameters

Table 4-89 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-90 Response body parameters

Parameter	Type	Description
close_account_statuses	Array of **CloseAccountStatusDto** objects	List of objects with details about the requests.

Table 4-91 CloseAccountStatusDto

Parameter	Type	Description
account_id	String	Unique ID of an account.
created_at	String	Date and time when the CloseAccount request was made.
updated_at	String	Date and time when the status of CloseAccount request was updated.
organization_id	String	Unique ID of an organization.
state	String	Status of the CloseAccount request. pending_closure indicates that the account is being closed. suspended indicates that the account has been closed.
failure_reason	String	Reason for a request failure.

Example Requests

Querying CloseAccount requests in the specified state


```
GET https://{endpoint}/v1/organizations/close-account-status
```

Example Responses

Status code: 200

Successful

```
{
  "close_account_statuses" : [ {
    "account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "updated_at" : "2022-08-24T06:41:15Z",
    "created_at" : "2022-08-24T06:41:15Z",
    "organization_id" : "o-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "state" : "pending_closure",
    "failure_reason" : "string"
  } ]
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.4 Managing Invitations

4.4.1 Getting Invitation Information

Function

This API is used to get the information about existing invitations in an organization.

It can be called by all accounts in an organization.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/handshakes/{handshake_id}

Table 4-92 Path Parameters

Parameter	Mandatory	Type	Description
handshake_id	Yes	String	Unique ID of an invitation. The originating account creates the ID when initiating the invitation.

Request Parameters

Table 4-93 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-94 Response body parameters

Parameter	Type	Description
handshake	HandshakeDto object	Information to be exchanged between two accounts (sender and receiver) for establishing a secure relationship. For example, when a management account (the sender) invites another account (the receiver) to join its organization, the two accounts exchange information as a series of invitation (handshake) requests and responses, which are contained in this structure.

Table 4-95 HandshakeDto

Parameter	Type	Description
id	String	Unique ID of an invitation (handshake). The originating account creates the ID when initiating the invitation (handshake).
urn	String	Uniform resource name of the invitation (handshake).
updated_at	String	Date and time when an invitation (handshake) request was accepted, canceled, declined, or expired.
created_at	String	Date and time when an invitation (handshake) request was made.
expired_at	String	The date and time the invitation (handshake) expires.
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
organization_id	String	Unique ID of an organization.
notes	String	Additional information that you want to include in the email to the recipient account owner.
target	**TargetDto** object	ID of the account that you want to invite to join your organization.
status	String	Current state of the invitation (handshake). It can be pending, accepted, cancelled, declined, or expired.

Table 4-96 TargetDto

Parameter	Type	Description
type	String	Target type. It can be account ID or name.
entity	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Example Requests

Getting invitation information

```
GET https://{endpoint}/v1/organizations/handshakes/{handshake_id}
```

Example Responses

Status code: 200

Successful.


```
{
  "handshake" : {
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:handshake:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "updated_at" : "2022-08-25T08:11:53Z",
    "created_at" : "2022-08-25T08:11:20Z",
    "expired_at" : "2022-09-08T08:11:20Z",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "organization_id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "notes" : "test-notes",
    "target" : {
      "type" : "account",
      "entity" : "05c734152f00d4200f2bc0179ac6c5e0"
    },
    "status" : "pending"
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.4.2 Accepting an Invitation

Function

This API is used to accept an invitation to join an organization. After you accept an invitation, the invitation information continues to appear in the results of relevant APIs for 30 days.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/received-handshakes/{handshake_id}/accept

Table 4-97 Path Parameters

Parameter	Mandatory	Type	Description
handshake_id	Yes	String	Unique ID of an invitation. The originating account creates the ID when initiating the invitation.

Request Parameters

Table 4-98 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-99 Response body parameters

Parameter	Type	Description
handshake	HandshakeDto object	Information to be exchanged between two accounts (sender and receiver) for establishing a secure relationship. For example, when a management account (the sender) invites another account (the receiver) to join its organization, the two accounts exchange information as a series of invitation (handshake) requests and responses, which are contained in this structure.

Table 4-100 HandshakeDto

Parameter	Type	Description
id	String	Unique ID of an invitation (handshake). The originating account creates the ID when initiating the invitation (handshake).
urn	String	Uniform resource name of the invitation (handshake).
updated_at	String	Date and time when an invitation (handshake) request was accepted, canceled, declined, or expired.
created_at	String	Date and time when an invitation (handshake) request was made.
expired_at	String	The date and time the invitation (handshake) expires.
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
organization_id	String	Unique ID of an organization.
notes	String	Additional information that you want to include in the email to the recipient account owner.
target	**TargetDto** object	ID of the account that you want to invite to join your organization.
status	String	Current state of the invitation (handshake). It can be pending, accepted, cancelled, declined, or expired.

Table 4-101 TargetDto

Parameter	Type	Description
type	String	Target type. It can be account ID or name.
entity	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Example Requests

Accepting an invitation

```
POST https://{endpoint}//v1/received-handshakes/{handshake_id}/accept
```

Example Responses

Status code: 200

Successful.


```
{
  "handshake" : {
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:handshake:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "updated_at" : "2022-08-25T08:11:53Z",
    "created_at" : "2022-08-25T08:11:20Z",
    "expired_at" : "2022-09-08T08:11:20Z",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "organization_id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "notes" : "test-notes",
    "target" : {
      "type" : "account",
      "entity" : "05c734152f00d4200f2bc0179ac6c5e0"
    },
    "status" : "accepted"
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.4.3 Declining an Invitation

Function

This API is used to decline an invitation to join an organization. This sets the invitation state to Declined and deactivates the invitation. This API can be called only from the account that received the invitation. The invitation initiator cannot re-activate a declined invitation but can re-initiate a new invitation.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/received-handshakes/{handshake_id}/decline

Table 4-102 Path Parameters

Parameter	Mandatory	Type	Description
handshake_id	Yes	String	Unique ID of an invitation. The originating account creates the ID when initiating the invitation.

Request Parameters

Table 4-103 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-104 Response body parameters

Parameter	Type	Description
handshake	HandshakeDto object	Information to be exchanged between two accounts (sender and receiver) for establishing a secure relationship. For example, when a management account (the sender) invites another account (the receiver) to join its organization, the two accounts exchange information as a series of invitation (handshake) requests and responses, which are contained in this structure.

Table 4-105 HandshakeDto

Parameter	Type	Description
id	String	Unique ID of an invitation (handshake). The originating account creates the ID when initiating the invitation (handshake).
urn	String	Uniform resource name of the invitation (handshake).
updated_at	String	Date and time when an invitation (handshake) request was accepted, canceled, declined, or expired.
created_at	String	Date and time when an invitation (handshake) request was made.
expired_at	String	The date and time the invitation (handshake) expires.
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
organization_id	String	Unique ID of an organization.
notes	String	Additional information that you want to include in the email to the recipient account owner.
target	**TargetDto** object	ID of the account that you want to invite to join your organization.
status	String	Current state of the invitation (handshake). It can be pending, accepted, cancelled, declined, or expired.

Table 4-106 TargetDto

Parameter	Type	Description
type	String	Target type. It can be account ID or name.
entity	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Example Requests

Declining an invitation

```
POST https://{endpoint}/v1/received-handshakes/{handshake_id}/decline
```

Example Responses

Status code: 200

Successful.

```
{
  "handshake" : {
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:handshake:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "updated_at" : "2022-08-25T08:11:53Z",
    "created_at" : "2022-08-25T08:11:20Z",
    "expired_at" : "2022-09-08T08:11:20Z",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "organization_id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "notes" : "test-notes",
    "target" : {
      "type" : "account",
      "entity" : "05c734152f00d4200f2bc0179ac6c5e0"
    },
    "status" : "declined"
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.4.4 Canceling an Invitation

Function

This API is used to cancel an invitation. This sets the invitation state to Canceled. This API can be called only from the account that initiated the invitation. After you cancel an invitation, the invitation information continues to appear in the results of relevant APIs for 30 days.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/handshakes/{handshake_id}/cancel

Table 4-107 Path Parameters

Parameter	Mandatory	Type	Description
handshake_id	Yes	String	Unique ID of an invitation. The originating account creates the ID when initiating the invitation.

Request Parameters

Table 4-108 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-109 Response body parameters

Parameter	Type	Description
handshake	HandshakeDto object	Information to be exchanged between two accounts (sender and receiver) for establishing a secure relationship. For example, when a management account (the sender) invites another account (the receiver) to join its organization, the two accounts exchange information as a series of invitation (handshake) requests and responses, which are contained in this structure.

Table 4-110 HandshakeDto

Parameter	Type	Description
id	String	Unique ID of an invitation (handshake). The originating account creates the ID when initiating the invitation (handshake).
urn	String	Uniform resource name of the invitation (handshake).
updated_at	String	Date and time when an invitation (handshake) request was accepted, canceled, declined, or expired.
created_at	String	Date and time when an invitation (handshake) request was made.
expired_at	String	The date and time the invitation (handshake) expires.
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
organization_id	String	Unique ID of an organization.
notes	String	Additional information that you want to include in the email to the recipient account owner.
target	**TargetDto** object	ID of the account that you want to invite to join your organization.
status	String	Current state of the invitation (handshake). It can be pending, accepted, cancelled, declined, or expired.

Table 4-111 TargetDto

Parameter	Type	Description
type	String	Target type. It can be account ID or name.
entity	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Example Requests

Canceling an invitation

```
POST https://{endpoint}/v1/organizations/handshakes/{handshake_id}/cancel
```

Example Responses

Status code: 200

Successful.


```
{
  "handshake" : {
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:handshake:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "updated_at" : "2022-08-25T08:11:53Z",
    "created_at" : "2022-08-25T08:11:20Z",
    "expired_at" : "2022-09-08T08:11:20Z",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "organization_id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "notes" : "test-notes",
    "target" : {
      "type" : "account",
      "entity" : "05c734152f00d4200f2bc0179ac6c5e0"
    },
    "status" : "cancelled"
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.4.5 Listing Received Invitations

Function

This API is used to list all the invitations associated with the specified account. It can be called by any account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/received-handshakes

Table 4-112 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-113 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-114 Response body parameters

Parameter	Type	Description
handshakes	Array of **HandshakeDto** objects	List of invitation (handshake) objects with details about each of the invitations (handshakes) associated with the specified account.
page_info	**PageInfoDto** object	Pagination information.

Table 4-115 HandshakeDto

Parameter	Type	Description
id	String	Unique ID of an invitation (handshake). The originating account creates the ID when initiating the invitation (handshake).
urn	String	Uniform resource name of the invitation (handshake).
updated_at	String	Date and time when an invitation (handshake) request was accepted, canceled, declined, or expired.
created_at	String	Date and time when an invitation (handshake) request was made.
expired_at	String	The date and time the invitation (handshake) expires.
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
organization_id	String	Unique ID of an organization.
notes	String	Additional information that you want to include in the email to the recipient account owner.
target	**TargetDto** object	ID of the account that you want to invite to join your organization.
status	String	Current state of the invitation (handshake). It can be pending, accepted, cancelled, declined, or expired.

Table 4-116 TargetDto

Parameter	Type	Description
type	String	Target type. It can be account ID or name.
entity	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Table 4-117 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing received invitations

```
GET https://{endpoint}/v1/received-handshakes
```

Example Responses

Status code: 200

Successful.

```
{
  "handshakes" : [ {
    "id" : "h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:handshake:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/h-awjp43m7bz3b8jgy5v61jrfwakt3og8w",
    "updated_at" : "2022-08-25T08:11:53Z",
    "created_at" : "2022-08-25T08:11:20Z",
    "expired_at" : "2022-09-08T08:11:20Z",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "organization_id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "notes" : "test-notes",
    "target" : {
      "type" : "account",
      "entity" : "05c734152f00d4200f2bc0179ac6c5e0"
    },
    "status" : "pending"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.4.6 Listing Sent Invitations

Function

This API is used to list all the invitations sent by an organization. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/handshakes

Table 4-118 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-119 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-120 Response body parameters

Parameter	Type	Description
handshakes	Array of **HandshakeDto** objects	List of invitation (handshake) objects with details about each of the invitations (handshakes) associated with the specified account.
page_info	**PageInfoDto** object	Pagination information.

Table 4-121 HandshakeDto

Parameter	Type	Description
id	String	Unique ID of an invitation (handshake). The originating account creates the ID when initiating the invitation (handshake).
urn	String	Uniform resource name of the invitation (handshake).
updated_at	String	Date and time when an invitation (handshake) request was accepted, canceled, declined, or expired.
created_at	String	Date and time when an invitation (handshake) request was made.
expired_at	String	The date and time the invitation (handshake) expires.

Parameter	Type	Description
management_account_id	String	Unique ID of the organization's management account.
management_account_name	String	Name of the organization's management account.
organization_id	String	Unique ID of an organization.
notes	String	Additional information that you want to include in the email to the recipient account owner.
target	**TargetDto** object	ID of the account that you want to invite to join your organization.
status	String	Current state of the invitation (handshake). It can be pending, accepted, cancelled, declined, or expired.

Table 4-122 TargetDto

Parameter	Type	Description
type	String	Target type. It can be account ID or name.
entity	String	If you choose type:account, you must provide the account ID. If you choose type:name, you must specify the account name.

Table 4-123 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing sent invitations

```
GET https://{endpoint}/v1/organizations/handshakes
```

Example Responses

Status code: 200

Successful.


```
{
  "handshakes" : [ {
    "id" : "h-2tnfkrhe64qokwripd2kqrhd7d3079u5",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:ou:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/ou-fi0rv9jbjgc6nifokh65jjo8c24fnujv",
    "updated_at" : "2022-09-23T07:38:15Z",
    "created_at" : "2022-09-23T07:38:15Z",
    "management_account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "management_account_name" : "paas_iam_573331",
    "organization_id" : "o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv",
    "notes" : "test-notes",
    "target" : {
      "type" : "account",
      "entity" : "644c579bea6d473e8ce386e0e8ec449d"
    },
    "status" : "cancelled"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.5 Managing Trusted Services

4.5.1 Enabling a Trusted Service

Function

This API is used to enable the integration of a cloud service (specified by service_principal) with Organizations. When you enable a trusted service, you allow the trusted service to create a service-linked agency in all accounts in your organization. This allows the trusted service to perform operations on your behalf

in your organization and its accounts. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/trusted-services/enable

Request Parameters

Table 4-124 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-125 Request body parameters

Parameter	Mandatory	Type	Description
service_principal	Yes	String	Name of the service principal.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Enabling a trusted service

```
POST https://{endpoint}/v1/organizations/trusted-services/enable

{
  "service_principal" : "string"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.5.2 Disabling a Trusted Service

Function

This API is used to disable the integration of a cloud service (specified by service_principal) with Organizations. After you disable a trusted service, the service no longer can create a service-linked agency in new accounts in your organization. This means the service no longer can perform operations on your behalf on any new accounts in your organization. The service can still perform operations in the old accounts until the service completes its cleanup from Organizations. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/trusted-services/disable

Request Parameters

Table 4-126 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-127 Request body parameters

Parameter	Mandatory	Type	Description
service_principal	Yes	String	Name of the service principal.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Disabling a trusted service

```
POST https://{endpoint}/v1/organizations/trusted-services/disable

{
  "service_principal" : "string"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.5.3 Listing Trusted Services

Function

This API returns a list of trusted services that are integrated with Organizations. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/trusted-services

Table 4-128 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-129 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-130 Response body parameters

Parameter	Type	Description
trusted_services	Array of **TrustedServiceDto** objects	List of service principals for the services that are integrated with Organizations.
page_info	**PageInfoDto** object	Pagination information.

Table 4-131 TrustedServiceDto

Parameter	Type	Description
service_principal	String	Name of a trusted service.

Parameter	Type	Description
enabled_at	String	Date when the trusted service was integrated with Organizations

Table 4-132 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing Trusted Services

```
GET https://{endpoint}/v1/organizations/trusted-services
```

Example Responses

Status code: 200

Successful.

```
{
  "trusted_services" : [ {
    "service_principal" : "autoservice0922102321263V58H",
    "enabled_at" : "2022-09-22T02:23:21Z"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.6 Managing Delegated Administrators

4.6.1 Registering a Delegated Administrator

Function

This API is used to register the specified member account as a delegated administrator to manage the Organizations functions of a specified service. This API grants the delegated administrator the read-only access to Organizations service data. IAM users in the delegated administrator account still need IAM permissions to access and manage the specified service. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/delegated-administrators/register

Request Parameters

Table 4-133 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-134 Request body parameters

Parameter	Mandatory	Type	Description
service_principal	Yes	String	Name of the service principal.
account_id	Yes	String	Unique ID of an account.

Response Parameters

Status code: 201

Successful.

None

Example Requests

Registering a delegated administrator

```
POST https://{endpoint}/v1/organizations/delegated-administrators/register

{
  "service_principal" : "string",
  "account_id" : "_Auft226uZhGFRo5R8unWGQZ5N48PgFrfwyc"
}
```

Example Responses

None

Status Codes

Status Code	Description
201	Successful.

Error Codes

See **Error Codes**.

4.6.2 Deregistering a Delegated Administrator

Function

This API is used to remove the specified member account as the delegated administrator for the specified service. It can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/delegated-administrators/deregister

Request Parameters

Table 4-135 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-136 Request body parameters

Parameter	Mandatory	Type	Description
service_principal	Yes	String	Name of the service principal.
account_id	Yes	String	Unique ID of an account.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Deregistering a delegated administrator

```
POST https://{endpoint}/v1/organizations/delegated-administrators/deregister

{
  "service_principal" : "string",
  "account_id" : "_Auft226uZhGFRo5R8unWGQZ5N48PgFrfwyc"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.6.3 Listing Services Managed by a Delegated Administrator Account

Function

This API is used to list the services for which the specified account is a delegated administrator. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/accounts/{account_id}/delegated-services

Table 4-137 Path Parameters

Parameter	Mandatory	Type	Description
account_id	Yes	String	Unique ID of an account.

Table 4-138 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-139 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-140 Response body parameters

Parameter	Type	Description
delegated_services	Array of **DelegatedServiceDto** objects	List of the services for which the specified account is a delegated administrator.
page_info	**PageInfoDto** object	Pagination information.

Table 4-141 DelegatedServiceDto

Parameter	Type	Description
service_principal	String	Name of the service principal.
delegation_enabled_at	String	Date when the account became a delegated administrator for the service.

Table 4-142 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing services managed by a delegated administrator account

```
GET https://{endpoint}/v1/organizations/accounts/{account_id}/delegated-services
```

Example Responses

Status code: 200

Successful.

```
{
  "delegated_services" : [ {
    "service_principal" : "autoservice0922102321263V58H",
    "delegation_enabled_at" : "2022-09-22T02:23:21Z"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.6.4 Listing Delegated Administrator Accounts

Function

This API is used to list the accounts that are designated as delegated administrators in an organization. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/delegated-administrators

Table 4-143 Query Parameters

Parameter	Mandatory	Type	Description
service_principal	No	String	Name of the service principal.
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-144 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-145 Response body parameters

Parameter	Type	Description
delegated_administrators	Array of **DelegatedAdministratorDto** objects	List of delegated administrators in an organization.
page_info	**PageInfoDto** object	Pagination information.

Table 4-146 DelegatedAdministratorDto

Parameter	Type	Description
delegation_enabled_at	String	Date when the account was designated as a delegated administrator.
account_id	String	Unique ID of an account.
account_urn	String	Uniform resource name of the account.
join_method	String	How an account joined an organization.
joined_at	String	Date when an account became a part of an organization.
account_name	String	Account name.

Table 4-147 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing delegated administrator accounts

```
GET https://{endpoint}/v1/organizations/delegated-administrators
```

Example Responses

Status code: 200

Successful.

```
{
  "delegated_administrators" : [ {
    "delegation_enabled_at" : "autoservice0922102321263V58H",
    "account_id" : "0a6d25d23900d45c0faac010e0fb4de0",
    "account_urn" : "urnstring",
    "join_method" : "invited",
    "joined_at" : "2022-08-24T06:41:15Z",
    "account_name" : "paas_iam_573331"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.7 Managing Policies

4.7.1 Creating a Policy

Function

This API is used to create a policy of the specified type. It can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/policies

Request Parameters

Table 4-148 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.
X-Language	No	String	Language of the returned results.

Table 4-149 Request body parameters

Parameter	Mandatory	Type	Description
content	Yes	String	Policy text content to be added to the new policy.
description	Yes	String	Optional description to be assigned to the policy.
name	Yes	String	Name to be assigned to the policy.
type	Yes	String	Type of the policy to be created. It can be service_control_policy or tag_policy.
tags	No	Array of **TagDto** objects	List of tags you want to attach to the new policy.

Table 4-150 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.

Parameter	Mandatory	Type	Description
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 201

Table 4-151 Response body parameters

Parameter	Type	Description
policy	**PolicyDto** object	Details about a policy.

Table 4-152 PolicyDto

Parameter	Type	Description
content	String	Text content of the policy.
policy_summary	**PolicySummaryDto** object	Information about a policy (policy content not included).

Table 4-153 PolicySummaryDto

Parameter	Type	Description
is_builtin	Boolean	A boolean value indicating whether the specified policy is a system policy. If the value is true, the policy is a system policy. You can attach the policy to roots, OUs, or accounts, but you cannot edit it.
description	String	Description of the policy.
id	String	Unique ID of the policy.
urn	String	Uniform resource name of the policy.
name	String	Name of the policy.
type	String	Policy type. It can be service_control_policy or tag_policy.

Example Requests

Creating a policy

```
POST https://{endpoint}/v1/organizations/policies

{
  "content" : "{\"Version\":\"5.0\",\"Statement\":[{\"Sid\":\"Statement1\",\"Effect\":\"Allow\",\"Action\":[\"*
\"],\"Resource\":[\"*\"]}]}",
  "description" : "auto0923160642938XHxSPolicydesc",
  "name" : "auto092316064293806EYPolicyName",
  "type" : "service_control_policy",
  "tags" : [ {
    "key" : "keystring",
    "value" : "valuestring"
  } ]
}
```

Example Responses

Status code: 201

Successful.

```
{
  "policy" : {
    "content" : "{\"Version\":\"5.0\",\"Statement\":[{\"Sid\":\"Statement1\",\"Effect\":\"Allow\",\"Action\":[\"*
\"],\"Resource\":[\"*\"]}]}",
    "policy_summary" : {
      "is_builtin" : false,
      "description" : "auto0923160642938XHxSPolicydesc",
      "id" : "p-b4wpejd02o66g0pvfinvsatp4t9krfum",
      "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:policy:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/service_control_policy/p-b4wpejd02o66g0pvfinvsatp4t9krfum",
      "name" : "auto092316064293806EYPolicyName",
      "type" : "service_control_policy"
    }
  }
}
```

Status Codes

Status Code	Description
201	Successful.

Error Codes

See **Error Codes**.

4.7.2 Listing Policies

Function

This API is used to list all policies in an organization. If a resource ID (such as an OU ID or account ID) is specified, this API will return a list of policies attached to the resource. This API can be called only from the organization's management

account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/policies

Table 4-154 Query Parameters

Parameter	Mandatory	Type	Description
attached_entity_id	No	String	Unique ID of the root, OU, or account.
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-155 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.
X-Language	No	String	Language of the returned results.

Response Parameters

Status code: 200

Table 4-156 Response body parameters

Parameter	Type	Description
policies	Array of **PolicySummaryDto** objects	List of policies in an organization.
page_info	**PageInfoDto** object	Pagination information.

Table 4-157 PolicySummaryDto

Parameter	Type	Description
is_builtin	Boolean	A boolean value indicating whether the specified policy is a system policy. If the value is true, the policy is a system policy. You can attach the policy to roots, OUs, or accounts, but you cannot edit it.
description	String	Description of the policy.
id	String	Unique ID of the policy.
urn	String	Uniform resource name of the policy.
name	String	Name of the policy.
type	String	Policy type. It can be service_control_policy or tag_policy.

Table 4-158 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing policies

```
GET https://{endpoint}/v1/organizations/policies
```

Example Responses

Status code: 200

Successful.


```
{
  "policies" : [ {
    "is_builtin" : true,
    "description" : "NFZ",
    "id" : "p-M5lVaiMgFXD6Hmq6o4dvqbGk",
    "urn" : "string",
    "name" : "9`P41WII9Yn]",
    "type" : "service_control_policy"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.7.3 Getting Policy Information

Function

This API is used to get the information about the specified policy. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/policies/{policy_id}

Table 4-159 Path Parameters

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Unique ID of the policy.

Request Parameters

Table 4-160 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.
X-Language	No	String	Language of the returned results.

Response Parameters

Status code: 200

Table 4-161 Response body parameters

Parameter	Type	Description
policy	**PolicyDto** object	Details about a policy.

Table 4-162 PolicyDto

Parameter	Type	Description
content	String	Text content of the policy.
policy_summary	**PolicySummaryDto** object	Information about a policy (policy content not included).

Table 4-163 PolicySummaryDto

Parameter	Type	Description
is_builtin	Boolean	A boolean value indicating whether the specified policy is a system policy. If the value is true, the policy is a system policy. You can attach the policy to roots, OUs, or accounts, but you cannot edit it.
description	String	Description of the policy.
id	String	Unique ID of the policy.
urn	String	Uniform resource name of the policy.
name	String	Name of the policy.
type	String	Policy type. It can be service_control_policy or tag_policy.

Example Requests

Getting Policy Information

```
GET https://{endpoint}/v1/organizations/policies/{policy_id}
```

Example Responses

Status code: 200

Successful.

```
{
  "policy" : {
    "content" : "{\"Version\":\"5.0\",\"Statement\":[{\"Sid\":\"Statement1\",\"Effect\":\"Allow\",\"Action\":[\"*\"],\"Resource\":[\"*\"]}]}",
    "policy_summary" : {
      "is_builtin" : false,
      "description" : "auto0923161647582JIeTPolicydesc",
      "id" : "p-scnsbv8byvfjp612ooojkdamzcgtp6l9",
      "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:policy:o-fhkmi6mek7wlqdp6nideqhb47qwtjdsv/service_control_policy/p-b4wpejd02o66g0pvfinvsatp4t9krfum",
      "name" : "auto0923161647583CXosPolicyName",
      "type" : "service_control_policy"
    }
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.7.4 Updating a Policy

Function

This API is used to update the name, description, or content of a policy. If no parameter is provided, the policy remains unchanged. A policy's type cannot be changed. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

PATCH https://{endpoint}/v1/organizations/policies/{policy_id}

Table 4-164 Path Parameters

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Unique ID of the policy.

Request Parameters

Table 4-165 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.
X-Language	No	String	Language of the returned results.

Table 4-166 Request body parameters

Parameter	Mandatory	Type	Description
content	No	String	Policy text content to be added to the new policy.

Parameter	Mandatory	Type	Description
description	No	String	Optional description to be assigned to the policy.
name	No	String	Name to be assigned to the policy.

Response Parameters

Status code: 200

Table 4-167 Response body parameters

Parameter	Type	Description
policy	**PolicyDto** object	Details about a policy.

Table 4-168 PolicyDto

Parameter	Type	Description
content	String	Text content of the policy.
policy_summary	**PolicySummaryDto** object	Information about a policy (policy content not included).

Table 4-169 PolicySummaryDto

Parameter	Type	Description
is_builtin	Boolean	A boolean value indicating whether the specified policy is a system policy. If the value is true, the policy is a system policy. You can attach the policy to roots, OUs, or accounts, but you cannot edit it.
description	String	Description of the policy.
id	String	Unique ID of the policy.
urn	String	Uniform resource name of the policy.
name	String	Name of the policy.
type	String	Policy type. It can be service_control_policy or tag_policy.

Example Requests

Updating a policy

```
PATCH https://{endpoint}/v1/organizations/policies/{policy_id}

{
  "content" : "{\"Version\":\"5.0\",\"Statement\":[{\"Sid\":\"Statement1\",\"Effect\":\"Allow\",\"Action\":[\"*
\"],\"Resource\":[\"*\"]}]}",
  "description" : "newdesc",
  "name" : "auto09231619598990t1HPolicyName"
}
```

Example Responses

Status code: 200

Successful.

```
{
  "policy" : {
    "content" : "{\"Version\":\"5.0\",\"Statement\":[{\"Sid\":\"Statement1\",\"Effect\":\"Allow\",\"Action\":[\"*
\"],\"Resource\":[\"*\"]}]}",
    "policy_summary" : {
      "is_builtin" : false,
      "description" : "newdesc",
      "id" : "p-xce633owqm0o1c929wno7l850z2rdr4m",
      "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:policy:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/service_control_policy/p-b4wpejd02o66g0pvfinvsatp4t9krfum",
      "name" : "auto09231619598990t1HPolicyName",
      "type" : "service_control_policy"
    }
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.7.5 Deleting a Policy

Function

This API is used to delete the specified account from an organization. Before calling this API, you must detach the policy from all OUs, roots, and accounts. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

DELETE https://{endpoint}/v1/organizations/policies/{policy_id}

Table 4-170 Path Parameters

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Unique ID of the policy.

Request Parameters

Table 4-171 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 204

Successful.

None

Example Requests

Deleting a policy

```
DELETE https://{endpoint}/v1/organizations/policies/{policy_id}
```

Example Responses

None

Status Codes

Status Code	Description
204	Successful.

Error Codes

See **Error Codes**.

4.7.6 Enabling a Policy Type for a Root

Function

This API is used to enable a policy type for a root of an organization. After you enable a policy type for the root, you can attach the policies of this type to the root, or any OU or account under the root. This is an asynchronous request executed in the background. You can use ListRoots to view the status of the policy types for the specified root. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/policies/enable

Request Parameters

Table 4-172 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-173 Request body parameters

Parameter	Mandatory	Type	Description
policy_type	Yes	String	Name of a policy type. It can be service_control_policy or tag_policy.
root_id	Yes	String	Unique ID of a root.

Response Parameters

Status code: 202

Table 4-174 Response body parameters

Parameter	Type	Description
root	**RootDto** object	Details about a root. A root is a top-level parent node in the hierarchy of an organization composed of OUs and accounts.

Table 4-175 RootDto

Parameter	Type	Description
id	String	Unique ID of a root.
urn	String	Uniform resource name of the root.
name	String	Root name.
policy_types	Array of **PolicyTypeSummaryDto** objects	Policy types that are currently enabled for the root. The policies of these types can be attached to the root or to its OUs or accounts.
created_at	String	Time when a root was created.

Table 4-176 PolicyTypeSummaryDto

Parameter	Type	Description
status	String	Status of the policy type associated with a root. To attach a policy of a specified type to a root or an OU or account in the root, the policy must be available in the organization and enabled for the root.
type	String	Name of a policy type. It can be service_control_policy or tag_policy.

Example Requests

Enabling a policy type for a root

```
POST https://{endpoint}/v1/organizations/policies/enable

{
  "policy_type" : "service_control_policy",
  "root_id" : "r-o1qqtqfo7xl427v7g"
}
```


Example Responses

Status code: 202

Successful.


```
{
  "root" : {
    "id" : "05261f923e80d3890f33c0056e9b3f80",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:policy:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/service_control_policy/p-b4wpejd02o66g0pvfinvsatp4t9krfum",
    "name" : "paas_iam_573331",
    "policy_types" : [ {
      "status" : "enabled",
      "type" : "service_control_policy"
    } ],
    "created_at" : "2022-09-22T02:23:21Z"
  }
}
```


Status Codes

Status Code	Description
202	Successful.

Error Codes

See **Error Codes**.

4.7.7 Disabling a Policy Type in a Root

Function

This API is used to disable a policy type in a root. A policy of a specific type can be attached to entities in a root only if that policy type is enabled in the root. After you call this API, you can no longer attach any policies of the specified type to that root or any OU or account in the root. This is an asynchronous request executed in the background. You can use ListRoots to view the status of the policy types for the specified root. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/policies/disable

Request Parameters

Table 4-177 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-178 Request body parameters

Parameter	Mandatory	Type	Description
policy_type	Yes	String	Name of a policy type. It can be service_control_policy or tag_policy.
root_id	Yes	String	Unique ID of a root.

Response Parameters

Status code: 202

Table 4-179 Response body parameters

Parameter	Type	Description
root	**RootDto** object	Details about a root. A root is a top-level parent node in the hierarchy of an organization composed of OUs and accounts.

Table 4-180 RootDto

Parameter	Type	Description
id	String	Unique ID of a root.
urn	String	Uniform resource name of the root.
name	String	Root name.
policy_types	Array of **PolicyTypeSummaryDto** objects	Policy types that are currently enabled for the root. The policies of these types can be attached to the root or to its OUs or accounts.

Parameter	Type	Description
created_at	String	Time when a root was created.

Table 4-181 PolicyTypeSummaryDto

Parameter	Type	Description
status	String	Status of the policy type associated with a root. To attach a policy of a specified type to a root or an OU or account in the root, the policy must be available in the organization and enabled for the root.
type	String	Name of a policy type. It can be service_control_policy or tag_policy.

Example Requests

Disabling a policy type in a root

```
POST https://{endpoint}/v1/organizations/policies/disable

{
  "policy_type" : "service_control_policy",
  "root_id" : "r-o1qqtqfo7xl427v7g"
}
```

Example Responses

Status code: 202

Successful.

```
{
  "root" : {
    "id" : "05261f923e80d3890f33c0056e9b3f80",
    "urn" : "organizations::0a6d25d23900d45c0faac010e0fb4de0:policy:o-
fhkmi6mek7wlqdp6nideqhb47qwtjdsv/service_control_policy/p-b4wpejd02o66g0pvfinvsatp4t9krfum",
    "name" : "paas_iam_573331",
    "policy_types" : [ {
      "status" : "enabled",
      "type" : "service_control_policy"
    } ],
    "created_at" : "2022-09-22T02:23:21Z"
  }
}
```

Status Codes

Status Code	Description
202	Successful.

Error Codes

See **Error Codes**.

4.7.8 Attaching a Policy to an Entity

Function

This API is used to attach a policy to a root, OU, or individual account. It can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/policies/{policy_id}/attach

Table 4-182 Path Parameters

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Unique ID of the policy.

Request Parameters

Table 4-183 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-184 Request body parameters

Parameter	Mandatory	Type	Description
entity_id	Yes	String	Unique ID of the root, OU, or account.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Attaching a policy to an entity

```
POST https://{endpoint}/v1/organizations/dry-run-policies/{policy_id}/attach

{
  "entity_id" : "ou-g0odxxnfw"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.7.9 Detaching a Policy from an Entity

Function

This API is used to detach a policy from a root, OU, or account. It can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/policies/{policy_id}/detach

Table 4-185 Path Parameters

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Unique ID of the policy.

Request Parameters

Table 4-186 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-187 Request body parameters

Parameter	Mandatory	Type	Description
entity_id	Yes	String	Unique ID of the root, OU, or account.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Detaching a policy from an entity

```
POST https://{endpoint}/v1/organizations/dry-run-policies/{policy_id}/detach

{
  "entity_id" : "ou-g0odxxnfw"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.7.10 Listing Entities for the Specified Policy

Function

This API is used to list all the entities (roots, OUs, and accounts) that the specified policy is attached to. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/policies/{policy_id}/attached-entities

Table 4-188 Path Parameters

Parameter	Mandatory	Type	Description
policy_id	Yes	String	Unique ID of the policy.

Table 4-189 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-190 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-191 Response body parameters

Parameter	Type	Description
attached_entities	Array of **EntityDto** objects	List of structures, each of which contains details about one of the entities to which the specified policy is attached.
page_info	**PageInfoDto** object	Pagination information.

Table 4-192 EntityDto

Parameter	Type	Description
name	String	Name of the entity.
id	String	Unique ID of the entity.
type	String	Entity type. It can be account, organizational_unit, or root.

Table 4-193 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing entities for the specified policy

```
GET https://{endpoint}/v1/organizations/policies/{policy_id}/attached-entities
```

Example Responses

Status code: 200

Successful.

```
{
  "attached_entities" : [ {
    "name" : "paas_iam_573331",
    "id" : "05261f923e80d3890f33c0056e9b3f80",
    "type" : "account"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.8 Managing Tags

4.8.1 Listing Tags for the Specified Resource

Function

This API is used to list the tags that are attached to the specified resource. You can attach tags to the following resources in Organizations: accounts, OUs, roots, and policies. This API can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/resources/{resource_id}/tags

Table 4-194 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique ID of the root, OU, account, or policy.

Table 4-195 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-196 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-197 Response body parameters

Parameter	Type	Description
tags	Array of **TagDto** objects	List of tags.
page_info	**PageInfoDto** object	Pagination information.

Table 4-198 TagDto

Parameter	Type	Description
key	String	Identifier or name of the tag key.
value	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Table 4-199 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing tags for the specified resource

```
GET https://{endpoint}/v1/organizations/resources/{resource_id}/tags
```

Example Responses

Status code: 200

Successful.

```
{
  "tags" : [ {
    "key" : "auto09230Uv5key",
    "value" : "auto0923XXFmvalue"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.8.2 Adding Tags to the Specified Resource

Function

This API is used to add one or more tags to the specified resource. You can attach tags to the following resources in Organizations: accounts, OUs, roots, and policies. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/resources/{resource_id}/tag

Table 4-200 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique ID of the root, OU, account, or policy.

Request Parameters

Table 4-201 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-202 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of **TagDto** objects	List of tags you want to add to the specified resource.

Table 4-203 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Adding Tags to the Specified Resource

```
POST https://{endpoint}/v1/organizations/resources/{resource_id}/tag

{
  "tags" : [ {
    "key" : "keystring",
    "value" : "valuestring"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.8.3 Removing Tags from the Specified Resource

Function

This API is used to remove any tags with the specified key from the specified resource. You can attach tags to the following resources in Organizations:

accounts, OUs, roots, and policies. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/resources/{resource_id}/untag

Table 4-204 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique ID of the root, OU, account, or policy.

Request Parameters

Table 4-205 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-206 Request body parameters

Parameter	Mandatory	Type	Description
tag_keys	Yes	Array of strings	

Response Parameters

Status code: 200

Successful.

None

Example Requests

Removing any tags with the specified key from the specified resource


```
POST https://{endpoint}/v1/organizations/resources/{resource_id}/untag

{
  "tag_keys" : [ "key1" ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.8.4 Listing Tags for the Specified Resource Type

Function

This API is used to list the tags that are attached to the specified resource type. You can attach tags to accounts, OUs, roots, and policies of an organization. This API can be called only from the organization's management account or a delegated administrator account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/{resource_type}/{resource_id}/tags

Table 4-207 Path Parameters

Parameter	Mandatory	Type	Description
resource_type	Yes	String	Resource type. It can be organizations:policies, organizations:ous, organizations:accounts, or organizations:roots.
resource_id	Yes	String	Unique ID of the root, OU, account, or policy.

Table 4-208 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-209 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-210 Response body parameters

Parameter	Type	Description
tags	Array of **TagDto** objects	List of tags.
page_info	**PageInfoDto** object	Pagination information.

Table 4-211 TagDto

Parameter	Type	Description
key	String	Identifier or name of the tag key.
value	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Table 4-212 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing tags for the specified resource type

```
GET https://{endpoint}/v1/organizations/{resource_type}/{resource_id}/tags
```

Example Responses

Status code: 200

Successful.

```
{
  "tags" : [ {
    "key" : "auto09230Uv5key",
    "value" : "auto0923XXFmvalue"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.8.5 Adding Tags to the Specified Resource Type

Function

This API is used to add one or more tags to the specified resource type. You can attach tags to accounts, OUs, roots, and policies of an organization. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/{resource_type}/{resource_id}/tags/create

Table 4-213 Path Parameters

Parameter	Mandatory	Type	Description
resource_type	Yes	String	Resource type. It can be organizations:policies, organizations:ous, organizations:accounts, or organizations:roots.
resource_id	Yes	String	Unique ID of the root, OU, account, or policy.

Request Parameters

Table 4-214 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-215 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of **TagDto** objects	List of tags you want to add to the specified resource.

Table 4-216 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Adding tags to the specified resource type

```
POST https://{endpoint}/v1/organizations/{resource_type}/{resource_id}/tags/create

{
  "tags" : [ {
    "key" : "keystring",
    "value" : "valuestring"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.8.6 Deleting Tags with the Specified Key from the Specified Resource Type

Function

This API is used to delete any tags with the specified key from the specified resource type. You can attach tags to accounts, OUs, roots, and policies of an organization. This API can be called only from the organization's management account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/{resource_type}/{resource_id}/tags/delete

Table 4-217 Path Parameters

Parameter	Mandatory	Type	Description
resource_type	Yes	String	Resource type. It can be organizations:policies, organizations:ous, organizations:accounts, or organizations:roots.
resource_id	Yes	String	Unique ID of the root, OU, account, or policy.

Request Parameters

Table 4-218 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-219 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of **TagDto** objects	List of tags you want to add to the specified resource.

Table 4-220 TagDto

Parameter	Mandatory	Type	Description
key	Yes	String	Identifier or name of the tag key.
value	Yes	String	String value associated with the tag key. You can set the tag value to an empty string, but cannot set it to NULL.

Response Parameters

Status code: 200

Successful.

None

Example Requests

Deleting tags with the specified key from the specified resource type

```
POST https://{endpoint}/v1/organizations/{resource_type}/{resource_id}/tags/delete

{
  "tags" : [ {
    "key" : "keystring",
    "value" : "valuestring"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.8.7 Querying Resource Instances by Resource Type and Tag

Function

This API is used to query the list of resource instances by resource type and tag.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/{resource_type}/resource-instances/filter

Table 4-221 Path Parameters

Parameter	Mandatory	Type	Description
resource_type	Yes	String	Resource type. It can be organizations:policies, organizations:ous, organizations:accounts, or organizations:roots.

Table 4-222 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Maximum number of results on a page.
offset	No	String	Pagination marker.

Request Parameters

Table 4-223 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-224 Request body parameters

Parameter	Mandatory	Type	Description
without_any_tag	No	Boolean	If this parameter is set to true, all resources without tags are queried.
tags	No	Array of **TagsDTO** objects	A maximum of 10 keys can be queried at a time, and each key can contain a maximum of 10 values. The structure body must be included. The tag key cannot be left blank or be an empty string. Each key must be unique, and each value for a key must be unique. Resources that contain all keys and one or multiple values listed in tags will be found and returned. If no tag filtering criteria is specified, all data is returned.
matches	No	Array of **Match** objects	Search field. key indicates the field to be matched, for example, organizational-unit. The tag value indicates the value to be matched. The key is a fixed dictionary value and cannot contain duplicate keys or unsupported keys.

Table 4-225 TagsDTO

Parameter	Mandatory	Type	Description
key	Yes	String	Key. Each tag key can contain a maximum of 127 Unicode characters and cannot be left blank.
values	Yes	Array of strings	List of values. Each value can contain a maximum of 255 Unicode characters.

Table 4-226 Match

Parameter	Mandatory	Type	Description
key	Yes	String	Key. The value can be policy, organizational-unit, or account.
value	Yes	String	Value. Each value can contain a maximum of 255 Unicode characters.

Response Parameters

Status code: 200

Table 4-227 Response body parameters

Parameter	Type	Description
resources	Array of **ResourceDTO** objects	List of resources.
total_count	Integer	Total number of records.

Table 4-228 ResourceDTO

Parameter	Type	Description
resource_id	String	Resource ID.
resource_name	String	Resource name.
tags	Array of **Match** objects	List of resource tags.

Table 4-229 Match

Parameter	Type	Description
key	String	Key. The value can be policy, organizational-unit, or account.
value	String	Value. Each value can contain a maximum of 255 Unicode characters.

Example Requests

Querying the list of resource instances by resource type and tag

```
POST https://{endpoint}/v1/organizations/{resource_type}/resource-instances/filter

{
  "without_any_tag" : true,
  "tags" : [ {
    "key" : "string",
    "values" : [ "string" ]
  } ],
  "matches" : [ {
    "key" : "string",
    "value" : "string"
  } ]
}
```

Example Responses

Status code: 200

Successful

```
{
  "resources" : [ {
    "resource_id" : "string",
    "resource_name" : "string",
    "tags" : [ {
      "key" : "string",
      "value" : "string"
    } ]
  } ],
  "total_count" : 0
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.8.8 Querying Number of Resource Instances by Resource Type and Tag

Function

This API is used to query the number of resource instances by resource type and tag.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

POST https://{endpoint}/v1/organizations/{resource_type}/resource-instances/count

Table 4-230 Path Parameters

Parameter	Mandatory	Type	Description
resource_type	Yes	String	Resource type. It can be organizations:policies, organizations:ous, organizations:accounts, or organizations:roots.

Request Parameters

Table 4-231 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Table 4-232 Request body parameters

Parameter	Mandatory	Type	Description
without_any_tag	No	Boolean	If this parameter is set to true, all resources without tags are queried.

Parameter	Mandatory	Type	Description
tags	No	Array of **TagsDTO** objects	A maximum of 10 keys can be queried at a time, and each key can contain a maximum of 10 values. The structure body must be included. The tag key cannot be left blank or be an empty string. Each key must be unique, and each value for a key must be unique. Resources that contain all keys and one or multiple values listed in tags will be found and returned. If no tag filtering criteria is specified, all data is returned.
matches	No	Array of **Match** objects	Search field. key indicates the field to be matched, for example, organizational-unit. The tag value indicates the value to be matched. The key is a fixed dictionary value and cannot contain duplicate keys or unsupported keys.

Table 4-233 TagsDTO

Parameter	Mandatory	Type	Description
key	Yes	String	Key. Each tag key can contain a maximum of 127 Unicode characters and cannot be left blank.
values	Yes	Array of strings	List of values. Each value can contain a maximum of 255 Unicode characters.

Table 4-234 Match

Parameter	Mandatory	Type	Description
key	Yes	String	Key. The value can be policy, organizational-unit, or account.

Parameter	Mandatory	Type	Description
value	Yes	String	Value. Each value can contain a maximum of 255 Unicode characters.

Response Parameters

Status code: 200

Table 4-235 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of records.

Example Requests

Querying the number of resource instances by resource type and tag

```
POST https://{endpoint}/v1/organizations/{resource_type}/resource-instances/count

{
  "without_any_tag" : true,
  "tags" : [ {
    "key" : "string",
    "values" : [ "string" ]
  } ],
  "matches" : [ {
    "key" : "string",
    "value" : "string"
  } ]
}
```

Example Responses

Status code: 200

Successful

```
{
  "total_count" : 0
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.8.9 Querying Resource Tags

Function

This API is used to query tags attached to the specified resource.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/{resource_type}/tags

Table 4-236 Path Parameters

Parameter	Mandatory	Type	Description
resource_type	Yes	String	Resource type. It can be organizations:policies, organizations:ous, organizations:accounts, or organizations:roots.

Request Parameters

Table 4-237 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-238 Response body parameters

Parameter	Type	Description
tags	Array of **TagsDTO** objects	A custom key-value pair.

Table 4-239 TagsDTO

Parameter	Type	Description
key	String	Key. Each tag key can contain a maximum of 127 Unicode characters and cannot be left blank.
values	Array of strings	List of values. Each value can contain a maximum of 255 Unicode characters.

Example Requests

Querying resource tags

```
GET https://{endpoint}/v1/organizations/{resource_type}/tags
```

Example Responses

Status code: 200

Successful

```
{
  "tags" : [ {
    "key" : "key1",
    "values" : [ "value1", "velua2" ]
  } ]
}
```

Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.9 Others

4.9.1 Querying Effective Policies

Function

This API is used to query the effective policy of a specific type for the specified account. This API cannot be used to query the information about service control policies. This API can be called only from the organization's management account or a delegated administrator account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/entities/effective-policies

Table 4-240 Query Parameters

Parameter	Mandatory	Type	Description
entity_id	Yes	String	Unique ID of an account. Currently, the effective policy of the root and organizational units cannot be queried.
policy_type	Yes	String	Name of a policy type. Currently, the value tag_policy is available.

Request Parameters

Table 4-241 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-242 Response body parameters

Parameter	Type	Description
last_updated_at	String	Time when the effective policy is mostly updated.
policy_content	String	Content of the effective policy.
policy_type	String	Name of a policy type. Currently, the value tag_policy is available.
entity_id	String	Unique ID of the root, OU, or account.

Example Requests

Querying effective policies

```
POST https://{endpoint}/v1/organizations/entities/effective-policies
```

Example Responses

Status code: 200

Successful.

```
{
  "last_updated_at" : "2023-01-11T11:00:00Z",
  "policy_content" : "{\"tags\":{\"color\":{\"tag_value\":[],\"tag_key\":\"Color\",\"enforced_for\":[\"iam:policy\"]},\"key_string\":{\"tag_value\":[\"AA\",\"BB\",\"cc\"],\"tag_key\":\"key_String\",\"enforced_for\":[\"iam:policy\"]},\"project\":{\"tag_value\":[\"Maintenance\",\"Escalations\"],\"tag_key\":\"Project\"}}}",
  "policy_type" : "tag_policy",
  "entity_id" : "c2acfcdf5fc7461a88f20094963e56c8"
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.9.2 Listing Entities in an Organization

Function

This API is used to list all the entities (roots, OUs, and accounts) in an organization. It can be called only from the organization's management account or from a member account that is a delegated administrator for a cloud service.

You can filter entities you want to view by specifying the parent OU ID and child OU ID.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/entities

Table 4-243 Query Parameters

Parameter	Mandatory	Type	Description
parent_id	No	String	Unique ID of the parent node (root OU or another OU).
child_id	No	String	Unique ID of the child node (OU).
limit	No	Integer	Maximum number of results on the page. If the limit is not specified, the default value is 1,000.
marker	No	String	Pagination marker.

Request Parameters

Table 4-244 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-245 Response body parameters

Parameter	Type	Description
entities	Array of **EntityDto** objects	List of roots, OUs, and accounts in an organization.
page_info	**PageInfoDto** object	Pagination information.

Table 4-246 EntityDto

Parameter	Type	Description
name	String	Name of the entity.
id	String	Unique ID of the entity.
type	String	Entity type. It can be account, organizational_unit, or root.

Table 4-247 PageInfoDto

Parameter	Type	Description
next_marker	String	Marker for the next set of results. If present, more output is available than is included in the current response. Use this value in the marker request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the next_marker response element comes back as null.
current_count	Integer	Number of items returned on the current page.

Example Requests

Listing entities in an organization

```
GET https://{endpoint}/v1/organizations/entities
```

Example Responses

Status code: 200

Successful

```
{
  "entities" : [ {
```



```
    "name" : ">Xm0g]]sW9KS2]kJ<bToX>1wu?S-?63MH]Of^D8CwZn\\L2qak7nd<h5IkFlp^Nc5",
    "id" : "r-1ipjropk1htpbwsd9v06faef6ls48o",
    "type" : "account"
  } ],
  "page_info" : {
    "next_marker" : "ou-taowxgy4xbme6m4x3c2iijbxw7yj8fcw",
    "current_count" : 100
  }
}
```


Status Codes

Status Code	Description
200	Successful

Error Codes

See **Error Codes**.

4.9.3 Listing Cloud Services Integrable with Organizations

Function

This API is used to list all cloud services that can be integrated with Organizations. After a service on this list is integrated with Organizations, that service becomes a trusted service for Organizations.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/services

Request Parameters

Table 4-248 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-249 Response body parameters

Parameter	Type	Description
services	Array of strings	Cloud service name.

Example Requests

Listing Cloud Services Integrable with Organizations

```
GET https://{endpoint}/v1/organizations/services
```

Example Responses

Status code: 200

Successful.

```
{
  "services" : [ "string" ]
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.9.4 Listing Resource Types That Support Enforcement

Function

This API is used to list the resources types that support enforcement with tag policies.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/tag-policy-services

Request Parameters

Table 4-250 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-251 Response body parameters

Parameter	Type	Description
services	Array of **TagPolicyServiceDto** objects	Resource types that support enforcement with tag policies.

Table 4-252 TagPolicyServiceDto

Parameter	Type	Description
service_name	String	Service name.
resource_types	Array of strings	Resource type.
support_all	Boolean	Whether resource_type support all services (wildcard *).

Example Requests

Listing resources types that support enforcement with tag policies

```
GET https://{endpoint}/v1/internal/organizations/tag-policy-services
```

Example Responses

Status code: 200

Successful.

```
{
  "services" : [ {
    "service_name" : "string",
    "resource_types" : [ "account", "ou" ],
```



```
    "support_all" : true
  } ]
}
```

Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

4.9.5 Listing Organizations Quotas

Function

This API is used to list Organizations quotas. It can be called only from the management account or a delegated administrator account.

Debugging

You can debug this API through automatic authentication in **API Explorer** or use the SDK sample code generated by API Explorer.

URI

GET https://{endpoint}/v1/organizations/quotas

Request Parameters

Table 4-253 Request header parameters

Parameter	Mandatory	Type	Description
X-Security-Token	No	String	Security token (session token) of your temporary security credentials. If a temporary security credential is used, this header is required.

Response Parameters

Status code: 200

Table 4-254 Response body parameters

Parameter	Type	Description
quotas	**QuotasResourcesDto** object	Response body of the organization quotas.

Table 4-255 QuotasResourcesDto

Parameter	Type	Description
resources	Array of **QuotaDto** objects	Quota information.

Table 4-256 QuotaDto

Parameter	Type	Description
type	String	Quota type. It can be account, organizational_unit, or policy.
quota	Integer	Number of quotas.
min	Integer	Minimum quota.
max	Integer	Maximum quota.
used	Integer	Used quantity.

Example Requests

Listing Organizations quotas

```
GET https://{endpoint}/v1/organizations/quotas
```

Example Responses

Status code: 200

Successful.

```
{
  "quotas" : {
    "resources" : [ {
      "type" : "string",
      "quota" : 0,
      "min" : 0,
      "max" : 1,
      "used" : 0
    } ]
  }
}
```


Status Codes

Status Code	Description
200	Successful.

Error Codes

See **Error Codes**.

5 Permissions and Supported Actions

5.1 Introduction

You can use Identity and Access Management (IAM) for fine-grained permissions management of your Organizations. If your HUAWEI ID does not need individual IAM users, you can skip this section.

New IAM users do not have any permissions assigned by default. You need to first add them to one or more groups and attach policies or roles to these groups. The users then inherit permissions from the groups and can perform specified operations on cloud services based on the permissions they have been assigned.

You can grant users permissions by using roles and policies. Roles are provided by IAM to define service-based permissions that match users' job responsibilities. Policies define API-based permissions for operations on specific resources under certain conditions, allowing for more fine-grained, secure access control of cloud resources.

NOTE

If you want to allow or deny the access to an API, use policy-based authorization.

An account has all the permissions required to call all APIs, but each IAM user must be assigned the required permissions before they can start calling APIs. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions can call the API successfully. For example, if an IAM user wants to query OU information using an API, the user must have been granted permissions that allow the **organizations:folders:get** action.

Supported Actions

Organizations provides system-defined policies that can be directly used in IAM. You can also create custom policies to supplement system-defined policies for more refined access control. Operations supported by policies are specific to APIs. The following are common concepts related to policies:

- Permissions: statements in a policy that allow or deny certain operations

- APIs: REST APIs that can be called by a user who has been granted specific permissions
- Actions: specific operations that are allowed or denied
- Dependencies: actions which a specific action depends on. When allowing an action for a user, you also need to allow any existing action dependencies for that user.
- IAM projects/Enterprise projects: the authorization scope of a custom policy. A custom policy can be applied to IAM projects or enterprise projects or both. Policies that contain actions for both IAM and enterprise projects can be used and applied for both IAM and Enterprise Management. Policies that contain actions only for IAM projects can be used and applied to IAM only. Administrators can check whether an action supports IAM projects or enterprise projects in the action list. For details about the differences between IAM and enterprise management, see **What Are the Differences Between IAM and Enterprise Management?**

5.2 Actions

Organization Management

Permission	API	Action	IAM Project	Enterprise Project
Creating an organization	POST /v1/organizations	• organizations:organizations:create • iam:agencies:createServiceLinkedAgency	Not supported	Not supported
Getting organization information	GET /v1/organizations	organizations:organizations:get	Not supported	Not supported
Deleting an organization	DELETE /v1/organizations	organizations:organizations:delete	Not supported	Not supported
Leaving the current organization	POST /v1/organizations/leave	organizations:organizations:leave	Not supported	Not supported
Listing roots of an organization	GET /v1/organizations/roots	organizations:roots:list	Not supported	Not supported

OU Management

Permission	API	Action	IAM Project	Enterprise Project
Creating an OU	POST /v1/organizations/organizational-units	• organizations:ous:create • organizations:resources:tag *(if tag information is requested)*	Not supported	Not supported
Listing OUs	GET /v1/organizations/organizational-units	organizations:ous:list	Not supported	Not supported
Getting OU information	GET /v1/organizations/organizational-units/{organizational_unit_id}	organizations:ous:get	Not supported	Not supported
Renaming an OU	PATCH /v1/organizations/organizational-units/{organizational_unit_id}	organizations:ous:update	Not supported	Not supported
Deleting an OU	DELETE /v1/organizations/organizational-units/{organizational_unit_id}	organizations:ous:delete	Not supported	Not supported

Account Management

Permission	API	Action	IAM Project	Enterprise Project
Creating an account	POST /v1/organizations/accounts	• organizations:accounts:create • organizations:resources:tag *(if tag information is requested)*	Not supported	Not supported
Listing accounts in an organization	GET /v1/organizations/accounts	organizations:accounts:list	Not supported	Not supported

Permission	API	Action	IAM Project	Enterprise Project
Getting account information	GET /v1/organizations/accounts/{account_id}	organizations:accounts:get	Not supported	Not supported
Removing the specified account	POST /v1/organizations/accounts/{account_id}/remove	organizations:accounts:remove	Not supported	Not supported
Moving an account	POST /v1/organizations/accounts/{account_id}/move	organizations:accounts:move	Not supported	Not supported
Inviting an account to join an organization	POST /v1/organizations/invite-account	• organizations:accounts:invite • organizations:resources:tag *(if tag information is requested)*	Not supported	Not supported
Querying CreateAccount requests in the specified state	GET /v1/organizations/create-account-statuses	organizations:createAccountStatuses:list	Not supported	Not supported
Getting the account creation status	GET /v1/organizations/create-account-statuses/{create_account_status_id}	organizations:createAccountStatuses:get	Not supported	Not supported

Invitation Management

Permission	API	Action	IAM Project	Enterprise Project
Getting invitation information	GET /v1/organizations/handshakes/{handshake_id}	organizations:handshakes:get	Not supported	Not supported

Permission	API	Action	IAM Project	Enterprise Project
Accepting an invitation	POST/v1/received-handshakes/{handshake_id}/accept	• organizations:handshakes:accept • iam:agencies:createServiceLinkedAgency	Not supported	Not supported
Declining an invitation	POST /v1/received-handshakes/{handshake_id}/decline	organizations:handshakes:decline	Not supported	Not supported
Canceling an invitation	POST /v1/organizations/handshakes/{handshake_id}/cancel	organizations:handshakes:cancel	Not supported	Not supported
Listing received invitations	GET /v1/received-handshakes	organizations:receivedHandshakes:list	Not supported	Not supported
Listing sent invitations	GET /v1/organizations/handshakes	organizations:handshakes:list	Not supported	Not supported

Management of Trusted Services

Permission	API	Action	IAM Project	Enterprise Project
Enabling a trusted service	POST /v1/organizations/enable-trusted-service	organizations:trustedServices:enable	Not supported	Not supported
Disabling a trusted service	POST /v1/organizations/disable-trusted-service	organizations:trustedServices:disable	Not supported	Not supported
Listing trusted services	GET /v1/organizations/trusted-services	organizations:trustedServices:list	Not supported	Not supported

Management of Delegated Administrators

Permission	API	Action	IAM Project	Enterprise Project
Registering a delegated administrator	POST /v1/organizations/delegated-administrators/register	organizations:delegatedAdministrators:register	Not supported	Not supported
Deregistering a delegated administrator	POST /v1/organizations/delegated-administrators/deregister	organizations:delegatedAdministrators:deregister	Not supported	Not supported
Listing services managed by a delegated administrator account	GET /v1/organizations/accounts/{account_id}/delegated-services	organizations:delegatedServices:list	Not supported	Not supported
Listing delegated administrator accounts	GET /v1/organizations/delegated-administrators	organizations:delegatedAdministrators:list	Not supported	Not supported

Policy Management

Permission	API	Action	IAM Project	Enterprise Project
Creating a policy	POST /v1/organizations/policies	• organizations:policies:create • organizations:resources:tag *(if tag information is requested)*	Not supported	Not supported
Listing policies	GET /v1/organizations/policies	organizations:policies:list	Not supported	Not supported
Getting policy information	GET /v1/organizations/policies/{policy_id}	organizations:policies:get	Not supported	Not supported

Permission	API	Action	IAM Project	Enterprise Project
Updating a policy	PATCH /v1/organizations/policies/{policy_id}	organizations:policies:update	Not supported	Not supported
Deleting a policy	DELETE /v1/organizations/policies/{policy_id}	organizations:policies:delete	Not supported	Not supported
Enabling a policy type for a root	POST /v1/organizations/policies/enable	organizations:policies:enable	Not supported	Not supported
Disabling a policy type in a root	POST /v1/organizations/policies/disable	organizations:policies:disable	Not supported	Not supported
Attaching a policy to a principal	POST /v1/organizations/policies/{policy_id}/attach	organizations:policies:attach	Not supported	Not supported
Detaching a policy from a principal	POST /v1/organizations/policies/{policy_id}/detach	organizations:policies:detach	Not supported	Not supported
Listing entities for the specified policy	GET /v1/organizations/policies/{policy_id}/attached-entities	organizations:attachedEntities:list	Not supported	Not supported

Tag Management

Permission	API	Action	IAM Project	Enterprise Project
Listing tags for the specified resource	GET /v1/organizations/resources/{resource_id}/tags	organizations:tags:list	Not supported	Not supported

Permission	API	Action	IAM Project	Enterprise Project
Adding tags to the specified resource	POST /v1/organizations/resources/{resource_id}/tag	organizations:resources:tag	Not supported	Not supported
Removing tags from the specified resource	POST /v1/organizations/resources/{resource_id}/untag	organizations:resources:untag	Not supported	Not supported
Listing tags for the specified resource	GET /v1/organizations/{resource_type}/{resource_id}/tags	organizations:tags:list	Not supported	Not supported
Adding tags to the specified resource	POST /v1/organizations/{resource_type}/{resource_id}/tags/create	organizations:resources:tag	Not supported	Not supported
Removing tags from the specified resource	POST /v1/organizations/{resource_type}/{resource_id}/tags/delete	organizations:resources:untag	Not supported	Not supported
Listing instances by resource type and tag	POST /v1/organizations/{resource_type}/resource-instances/filter	organizations:resources:listByTag	Not supported	Not supported
Querying the number of instances by resource type and tag	POST /v1/organizations/{resource_type}/resource-instances/count	organizations:resources:countByTag	Not supported	Not supported
Querying resource tags	GET /v1/organizations/{resource_type}/tags	organizations:resources:list	Not supported	Not supported

Others

Permission	API	Action	IAM Project	Enterprise Project
Querying the effective policy	GET /v1/organizations/entities/effective-policies	organizations:effectivePolicies:get	Not supported	Not supported
Listing entities in an organization	GET /v1/organizations/entities	organizations:entities:list	Not supported	Not supported
Listing cloud services integrable with Organizations	GET /v1/organizations/services	organizations:services:list	Not supported	Not supported
Listing resource types that support tag policy enforcement	GET /v1/organizations/tag-policy-services	organizations:tagPolicyServices:list	Not supported	Not supported
Listing organization quotas	GET /v1/organizations/quotas	organizations:quotas:list	Not supported	Not supported

6 Appendixes

6.1 Status Codes

- Normal

Returned Value	Description
200 OK	The results of GET and PUT operations are returned as expected.
201 Created	The results of the POST operation are returned as expected.
202 Accepted	The request has been accepted for processing.
204 No Content	The results of the DELETE operation are returned as expected.

- Abnormal

Returned Value	Description
400 Bad Request	The server failed to process the request.
401 Unauthorized	You must enter a username and password to access the requested page.
403 Forbidden	You are forbidden to access the requested page.
404 Not Found	The server cannot find the requested page.
405 Method Not Allowed	You are not allowed to use the method specified in the request.
406 Not Acceptable	The response generated by the server cannot be accepted by the client.

Returned Value	Description
407 Proxy Authentication Required	You must use the proxy server for authentication so that the request can be processed.
408 Request Timeout	The request timed out.
409 Conflict	The request could not be processed due to a conflict.
500 Internal Server Error	Failed to complete the request because of a service error.
501 Not Implemented	Failed to complete the request because the server does not support the requested function.
502 Bad Gateway	Failed to complete the request because the request is invalid.
503 Service Unavailable	Failed to complete the request. The service is unavailable.
504 Gateway Timeout	A gateway timeout error occurred.

6.2 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
401	Organizations.1001	This operation can be called only from the management account of an organization.	Failed to verify permissions.	Check whether the API is called by the management account.

Status Code	Error Code	Error Message	Description	Solution
401	Organizations.1002	This operation can be called only from the management account of an organization or by a member account that is a delegated administrator for a service.	Failed to verify permissions.	Check whether the API is called by the management account or the account registered as a delegated administrator.
409	Organizations.1003	Concurrent modification.	Concurrent modification.	Try again later.
400	Organizations.1004	Bad request for generating Organizations service management token.	An error occurred when generating the administrator token.	Try again later. If the operation fails again, contact the administrator.
400	Organizations.1005	Bad request for querying cbc em info.	Failed to query the enterprise accounts.	Check whether the account is the master account or a member account of the enterprise.
400	Organizations.1006	Bad request for generating assume-role token.	Failed to upgrade the permission.	Try again later. If the operation fails again, contact the administrator.
403	Organizations.1007	Policy does not allow '{0}' to be performed.	Fine-grained authentication failed.	Check whether the user has the access permission.
400	Organizations.1008	Bad request for checking permission.	Bad request for a fine-grained authentication.	Contact the administrator.
400	Organizations.1009	Bad request for impersonating.	Bad request for a role switching.	Contact the administrator.

Status Code	Error Code	Error Message	Description	Solution
404	Organizations.1010	Http header not found.	Request header not found.	Check whether all request headers required for calling the API are available.
400	Organizations.1011	Bad request for invalid user profile.	Bad request for invalid user profile.	Contact the administrator.
400	Organizations.1012	Bad request for invalid context attributes.	Bad request for invalid context attributes.	Contact the administrator.
400	Organizations.1013	Bad request for invalid marker.	Invalid **marker**.	Enter a valid **marker** value.
400	Organizations.1014	Bad request for request proof.	Invalid **proof** request header.	Ensure that **proof** request header is valid.
401	Organizations.1015	This operation can be called from any account in the organization.	Failed to verify permissions.	Check whether the API is called by a member account.
400	Organizations.1016	Bad request for domain tags.	Failed to obtain tags.	Contact the administrator.
400	Organizations.1017	Bad request for getting projects.	Failed to obtain information about the project.	Contact the administrator.
401	Organizations.1018	This operation can be called only from the organization's member account.	Failed to verify permissions.	Check whether the API is called by a member account.

Status Code	Error Code	Error Message	Description	Solution
400	Organizations.1019	Bad request for querying IAM domain info.	Failed to obtain the user information.	Contact the administrator.
400	Organizations.1020	SSL check failed.	Failed to verify the certificate.	Contact the administrator.
400	Organizations.1021	Bad request for authorization header pattern.	Invalid **token** request header.	Ensure that **authorization** request header is valid.
400	Organizations.1022	Bad request for querying the restricted list.	Failed to query the restricted list.	Contact the administrator.
400	Organizations.1023	Bad request for querying the frozen list.	Failed to query the frozen list.	Contact the administrator.
404	Organizations.1100	Organization not found.	Organization not found.	Check whether the Organizations service is enabled for the current account.
409	Organizations.1101	Conflict for creating an organization. This account is already a member of an organization.	A conflict occurred when creating an organization.	Check whether the current account is already a member account of the organization.
400	Organizations.1102	To delete the organization, you must first remove all member accounts, all organizational units, and all policies.	Failed to delete an organization.	Check whether all member accounts, OUs, and policies have been removed from the organization.

Status Code	Error Code	Error Message	Description	Solution
400	Organizations.1103	Failed to create an organization. Only for the enterprise master account.	Failed to create an organization (for the enterprise master account).	Check whether the current account is the master enterprise account.
403	Organizations.1104	The current operation has been restricted.	The operation is restricted and access is not allowed.	Check whether the account is restricted.
403	Organizations.1105	The current operation has been frozen.	The operation is frozen and access is not allowed.	Check whether the account is frozen.
404	Organizations.1200	Organizational unit not found.	OU not found.	Check whether the OU is available.
404	Organizations.1201	A root or organizational unit with the ParentId not found.	Root or OU not found based on a parent OU ID.	Check whether the parent OU ID is available.
400	Organizations.1202	The organizational unit is not empty.	OU not empty	Check whether the OU is empty of accounts and child OUs.
400	Organizations.1203	Quota exceeded for an organizational unit tree level.	Maximum levels for an OU exceeded.	Check whether the levels for an OU exceed the maximum allowed.
400	Organizations.1204	Quota exceeded for organizational unit.	Maximum number of OUs exceeded.	Check whether the number of OUs exceeds the maximum allowed.

Status Code	Error Code	Error Message	Description	Solution
409	Organizations.1205	Conflict for organizational unit. An organizational unit name must be unique within a parent organizational unit.	Duplicate OU names.	Check whether each OU name is unique under its parent OU.
404	Organizations.1300	Account not found.	Account not found.	Check whether the account is valid.
404	Organizations.1301	Account creation status not found.	Account creation status not found.	Check whether the input **create_account_status_id** is correct.
400	Organizations.1302	Bad request for wrong source parent id.	Incorrect source_parent_id.	Check whether the input **source_parent_id** is correct.
400	Organizations.1303	Bad request for wrong destination parent id.	Incorrect destination_parent_id.	Check whether the input **destination_parent_id** is correct.
400	Organizations.1304	The management account of the organization or the organization administrator cannot leave an organization.	Management account or administrator account not allowed to leave an organization.	Check whether the account that attempts to leave an organization is the management account or administrator account of the organization.
400	Organizations.1305	Quota exceeded for account.	Maximum number of accounts in an organization exceeded.	Check whether the number of accounts in the organization exceeds the maximum.

Status Code	Error Code	Error Message	Description	Solution
409	Organizations.1306	This account is already a member of an organization. An account can belong to only one organization at a time.	Account already being a member of an organization.	Check whether the account is already a member of the organization.
409	Organizations.1307	This account is already invited.	Account already invited.	Check whether the account has been invited.
400	Organizations.1308	Accounts cannot be invited (only for enterprise member accounts).	Accounts cannot be invited (only for enterprise member accounts).	Check whether the account is a member account of the master account used by the organization administrator.
400	Organizations.1309	This account cannot be invited because it is at a site different from your organization.	The account cannot be invited because it is at a site different from the current organization.	Ensure that the management account and the invited account are at the same site.
400	Organizations.1310	This account cannot be invited because its type is currently not supported.	This account cannot be invited because its type is currently not supported.	Ensure that the account is a member account.
404	Organizations.1400	Handshake not found.	Handshake not found.	Check whether the handshake is correct.

Status Code	Error Code	Error Message	Description	Solution
400	Organizations.1401	Bad request for wrong handshake status. This operation can only be performed to a pending handshake.	Incorrect handshake state (This operation should be performed only when the handshake is in the pending state).	Check whether the handshake state is the required one.
400	Organizations.1402	Quota exceeded for cancelled handshake per day.	Daily handshake cancellations exceeding the maximum.	Check whether the number of daily attempts to cancel handshakes exceeds the maximum.
404	Organizations.1500	Delegated administrator not found.	Delegated administrator not found.	Check whether there is a delegated administrator.
409	Organizations.1501	Conflict for delegated administrator.	Delegated administrators in conflict.	Check whether there is already a delegated administrator.
404	Organizations.1600	Policy not found.	Policy not found.	Check whether the policy is available.
404	Organizations.1601	Policy attachment not found.	Policy not attached.	Check whether the policy is attached to any principal.
404	Organizations.1602	Policy attachment entity not found.	Principal not available for policy attachment.	Check whether the principal to which the policy will be attached is available.
409	Organizations.1603	Conflict for policy attachment.	Conflict for policy attachment.	Check whether the policy has been attached to the principal.

Status Code	Error Code	Error Message	Description	Solution
400	Organizations.1604	Bad request for existing policy attachment.	No principal attached to the policy.	Check whether the policy is attached to any principal.
400	Organizations.1605	Bad request for modifying a built-in policy.	Modification not allowed for a built-in policy.	Check whether the policy you are modifying is a built-in policy.
400	Organizations.1606	Policy quota exceeded.	Maximum number of policies exceeded.	Check whether the number of attempts to create policies exceeds the maximum.
400	Organizations.1607	Quota exceeded for service control policy per entity.	Maximum number of policies attached to a principal exceeded.	Check whether the number of policies attached to the principal exceeds the maximum.
400	Organizations.1608	Wrong format for policy content.	Invalid policy format.	Check whether the format of the policy content is correct.
404	Organizations.1609	Root not found.	Root not found.	Check whether the ID of the root is correct.
404	Organizations.1610	Root policy type not found.	Policy type of the root OU not found.	Check whether the input parameter is correct.
400	Organizations.1611	Bad request for wrong root policy type status.	Incorrect state of the policy type for the root OU.	Check whether the input parameter is correct.
409	Organizations.1612	Policy conflict. The policy name must be unique within an organization.	Duplicate policy names found in the same organization.	Check whether the policy name is unique in the organization.

Status Code	Error Code	Error Message	Description	Solution
400	Organizations.1613	Bad request for service control policy disabled.	Service control policy disabled.	Check whether the service control policy is disabled.
400	Organizations.1614	Detaching the last policy not allowed.	Detaching the last policy not allowed.	Check whether the policy to be detached is the last one for the principal.
400	Organizations.1615	The policy name does not allow all space.	Policy name cannot contain only white spaces	Check whether the policy name is valid.
400	Organizations.1616	Policy changes in progress.	Policy being modified.	Try again later.
400	Organizations.1617	Scheduler runtime exception.	Failed to enable or disable the policy type.	Try again later.
400	Organizations.1618	Policy type not supported.	The policy type is not supported.	Check whether the policy type is correct.
400	Organizations.1619	You provided a string parameter that is longer than allowed.	The parameter length exceeds the allowed limit.	Enter a maximum of 5120 characters.
404	Organizations.1700	Tag not found.	Tag not found.	Check whether the tag is available.
404	Organizations.1701	Resource with the tag not found.	Resource with the tag not found.	Check whether the resource which the tag is attached is available.
409	Organizations.1702	Tag conflict.	Tag already exists.	Check whether the resource already has the tag.

Status Code	Error Code	Error Message	Description	Solution
400	Organizations.1703	Tag quota exceeded.	Tag quota exceeded.	Check whether the number of tags exceeds the maximum allowed on the resource.
400	Organizations.1800	Invalid quota value.	Invalid quota value.	Check whether the input quota value is correct.
404	Organizations.1900	Trusted service not found.	Trusted service not found.	Check whether the input parameter is correct.
409	Organizations.1901	Conflict for trusted service.	Conflict for trusted service.	Check whether the trusted service already exists.
400	Organizations.1902	Delegated administrator is not empty for this service.	The delegated administrator is not specified.	Specify a delegated administrator for the current service.
400	Organizations.2000	Bad request for creating the service-linked agency.	Failed to create the service-linked agency.	Check whether the input parameter is correct.
400	Organizations.2001	Bad request for missing app_name.	App name missing.	Check whether the app name is missing.
409	Organizations.2002	Conflict for the service-linked agency. It is already created.	Conflict for the service-linked agency.	Check whether the service-linked agency already exists.
400	Organizations.2003	Bad request for deleting the service-linked agency.	Failed to delete the service-linked delegated administrator.	Check whether the input parameter is correct.
404	Organizations.2004	Service-linked agency not found.	Service-linked agency not found.	Check whether there is a service-linked agency.

Status Code	Error Code	Error Message	Description	Solution
404	Organizations.2005	Service request for service_principal not found.	App name not found.	Check whether the app name is correct.
400	Organizations.2006	Bad request for authorization header. JWT token is malformed.	JWT token malformed.	Check whether the JSON Web Token (JWT) token is correct.
400	Organizations.2100	Either parent OU ID or child OU ID should be provided.	Either parent OU ID or child OU ID required.	Verify that either parent OU ID or child OU ID is provided.
409	Organizations.2101	Service conflict. The names of service_principal and app_name must be unique.	Conflict for **service_principal** or **app_name**.	Check whether **service_principal** or **app_name** already exists.
404	Organizations.2102	Service not found.	Service not found.	Check whether the input **service_principal** is correct.
400	Organizations.2103	Bad request for listing the service principal.	Failed to obtain the **service_principal**.	Check whether the input parameter is correct.
404	Organizations.2104	Entity not found.	Entity not found.	Check whether the principal ID is correct. If the principal is newly created, try again later.
400	Organizations.2105	Policy type is invalid.	The policy type is invalid.	Check the policy type (tag_policy).

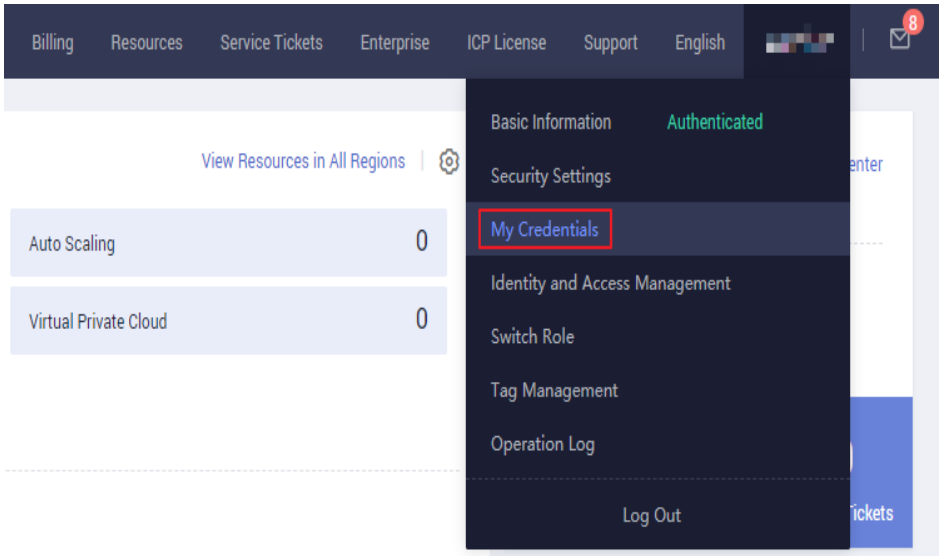
Status Code	Error Code	Error Message	Description	Solution
404	Organizations.2106	Service principal from IAM not found. It must be registered with IAM.	**service_principal** not registered with IAM.	Check whether **service_principal** has been registered with IAM.
400	Organizations.2200	Time format or range error.	Incorrect time format or range.	Check whether the input parameter is correct.
400	Organizations.2201	Bad request for changing customer relation.	Failed to change account association.	Contact the administrator.
400	Organizations.2202	The relation of domain ID has been changed too many times.	Master-member account associations have been changed too many times.	Do not frequently change the master-member account associations. (A member account is allowed to change its association with the master account for ten times or less per month.)
403	Organizations.2007	Bad Request: {0}.	Failed to create the service-linked agency.	Check whether the required permission is granted based on the error cause.

6.3 Obtaining Account, IAM User, Group, Project, Region, and Agency Information

Obtaining Account, IAM User, and Project Information

- **Using the console**
  a. On the Huawei Cloud homepage, click **Console** in the upper right corner.
  b. Hover over the username in the upper right corner and choose **My Credentials**.

Figure 6-1 My Credentials



c. View the account name, account ID, username, user ID, project name, and project ID on the **API Credentials** page.

The project ID varies depending on the region where the service is located.

Figure 6-2 Viewing the account, user, and project information

- **Calling an API**
  - For details about how to obtain a user ID, see **Listing IAM Users**.
  - For details about how to obtain a project ID, see **Querying Project Information**.

Obtaining User Group Information

Step 1 Log in to the IAM console, and choose **User Groups** in the navigation pane.

Step 2 Expand the details page of a user group and view the group name and ID.

----End

Obtaining Region Information

Step 1 Log in to the IAM console, and choose **Projects** in the navigation pane.

Step 2 The value in the **Project Name** column is the ID of the region to which the project belongs.

----End

Obtaining Agency Information

Step 1 Log in to the IAM console, and choose **Agencies** in the navigation pane.

Step 2 Hover over the target agency. The name and ID of this agency are displayed.

----End

