Enterprise Project Management Service

API Reference

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Contents

1 Before You Start

1.1 Overview

Welcome to Enterprise Project Management Service API Reference. Enterprise Project Management Service (EPS) provides a unified method to manage cloud resources and personnel by enterprise project.

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

If you plan to access enterprise projects through an API, ensure that you are familiar with EPS concepts. For details, see **Enterprise Management User Guide**.

1.2 API Calling

EPS supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see **3 Calling APIs**.

1.3 Endpoints

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

1.4 Concepts

- Account

  An account is created upon successful registration. 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. 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 name, username, and password.

- Region

  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**.

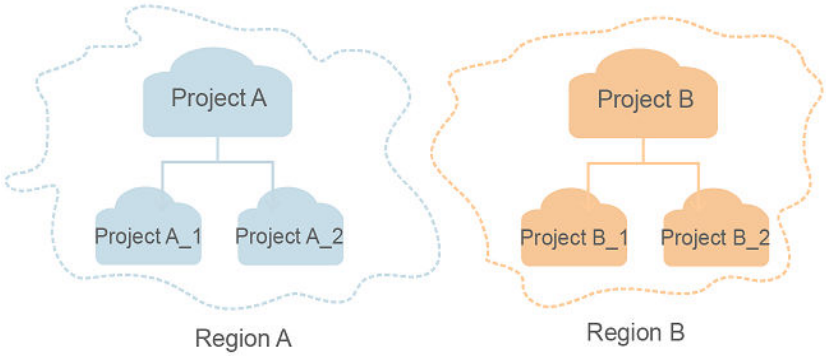
- AZ

  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 accounts 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

You can use EPS APIs to query enterprise project version information and manage enterprise projects.

Table 2-1 API description

API	Description
Querying API Versions	Query all API versions of an enterprise project.
Querying an API Version	Query details about the API version of an enterprise project.
Listing Enterprise Projects	Query the list of enterprise projects authorized by the current user.
Creating an Enterprise Project	Create enterprise projects and manage cloud resources by enterprise project.
Querying Enterprise Project Details	Query details about a specified enterprise project.
Modifying Enterprise Projects	Modify an enterprise project. The default enterprise project (default) cannot be modified.
Enabling Enterprise Projects	This API is used to enable existing enterprise projects.
Disabling Enterprise Projects	This API is used to disable existing enterprise projects. The default enterprise project cannot be disabled.
Querying the Enterprise Project Quota	Query the enterprise project quota.
Listing Resources in an Enterprise Project	Query resources added to an enterprise project.

API	Description
Migrating Resources	Migrate resources to a target enterprise project.
Querying Supported Services	Querying services supported by enterprise projects

3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request, and uses the IAM API for **obtaining a user token** as an example to demonstrate how to call an API. The obtained token can then be used to authenticate the calling of other APIs.

Request URI

A request URI is in the following format:

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

Although a request URI is included in the request header, most programming languages or frameworks require the request URI to be transmitted separately.

Table 3-1 URI parameter description

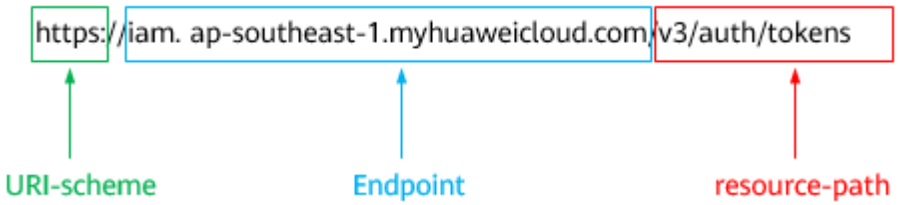
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from **Regions and Endpoints**. For example, the endpoint of IAM in region **CN-Hong Kong** is **iam.ap-southeast-1.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 used to obtain a user token is **/v3/auth/tokens**.

Parameter	Description
query-string	Query parameter, which is optional. 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 displayed.

For example, to obtain an IAM token in the **CN-Hong Kong** region, obtain the endpoint of IAM (iam.ap-southeast-1.myhuaweicloud.com) for this region and the resource-path (/v3/auth/tokens) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
```

Figure 3-1 Example URI



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.

Table 3-2 HTTP methods

Method	Description
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	Same as GET except that the server must return only the response header.

Method	Description
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 **obtain a user token**, the request method is **POST**. The request is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
```

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.

Table 3-3 lists common request header fields.

Table 3-3 Common request headers

Name	Description	Mandatory	Example
Host	Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of *Hostname:Port number*. If the port number is not specified, the default port is used. The default port number for HTTPS is 443.	No This field is mandatory for AK/SK authentication.	code.test.com or code.test.com:443

Name	Description	Mandatory	Example
Content-Type	Specifies the request body MIME type. You are advised to use the default value **application/json**. For APIs used to upload objects or images, the value can vary depending on the flow type.	Yes	application/json
Content-Length	Specifies the length of the request body. The unit is byte.	No	3495
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in **Obtaining a Project ID**.	No This field is mandatory for requests that use AK/SK authentication in the DeC scenario or multi-project scenario.	e9993fc787d94b6c886cbaa340f9c0f4
X-Auth-Token	Specifies the user token. Obtain the token by calling the API for **obtaining a user token** (only this API does not require authentication). After the request is processed, the value of **X-Subject-Token** in the header is the token value.	No This field is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ

NOTE

In addition to supporting authentication using tokens, APIs support authentication using AK/SK, which uses SDKs to sign a request. During the signature, the **Authorization** (signature authentication) and **X-Sdk-Date** (time when a request is sent) headers are automatically added in the request.

The API used to **obtain a user token** does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

(Optional) Request Body

This part is optional. The body of a request is often sent in a structured format (for example, JSON or XML) 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.

For the API of **obtaining a user token**, obtain the request parameters and parameter description in the API request. The following topic provides an example request with the body included. Set username (first **name**), account name (second **name**), login password (**password**), and project ID (**id**) as required. *xxxxxxxxxxxxxxxxx* is the domain ID.

NOTE

The scope parameter specifies where a token takes effect. You can set scope to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see **Obtaining a User Token**.

EPS uses the domain-level token. The following provides an example of how to obtain the token:

```
POST https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json

{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",
                    "password": "********",
                    "domain": {
                        "name": "domainname"
                    }
                }
            }
        },
        "scope": {
            "domain": {
                "id": "xxxxxxxxxxxxxxxxxx"
            }
        }
    }
}
```

If all data required for the API request is available, you can send the request to call the API through **curl**, **Postman**, or coding. In the response to the API used to obtain a user token, **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

3.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token authentication: Requests are authenticated using tokens.
- AK/SK authentication: Requests are encrypted using AK/SK pairs. AK/SK authentication is recommended because it is more secure than token authentication.

Token Authentication

NOTE

The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API. You can obtain a token by calling the **Obtaining a User Token** API.

A cloud service can be deployed as either a project-level service or global service.

- For a project-level service, you need to obtain a project-level token. When you call the API, set **auth.scope** in the request body to **project**.
- For a global service, you need to obtain a global token. When you call the API, set **auth.scope** in the request body to **domain**.

EPS is a global service. When you call the API, set **auth.scope** in the request body to **domain**. For details about how to obtain the user token, see **Obtaining a User Token**.

```
{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",   // IAM user name
                    "password": "********",  // IAM user password
                    "domain": {
                        "name": "domainname"  // Name of the account to which the IAM user belongs
                    }
                }
            }
        },
        "scope": {
            "domain": {
                "name": "xxxxxxxx"    // Project name
            }
        }
    }
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** can be added to a request as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK Authentication

NOTE

AK/SK authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token authentication is recommended.

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

NOTE

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

3.3 Response

Status Code

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

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

For example, if status code **201** is returned for calling the API used to **obtain a user token**, the request is successful.

Response Header

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

Figure 3-2 shows the response header fields for the API used to **obtain a user token**. The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 3-2 Header fields of the response to the request for obtaining a user token

(Optional) Response Body

The body of a response is often returned in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The response body transfers content except the response header.

The following is part of the response body for the API used to **obtain a user token**.

```
{
    "token": {
        "expires_at": "2019-02-13T06:52:13.855000Z",
        "methods": [
            "password"
        ],
        "catalog": [
            {
                "endpoints": [
                    {
                        "region_id": "az-01",
.....
```

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": "The format of message is error",
    "error_code": "AS.0001"
}
```

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

4 Getting Started

This section describes how to create an enterprise project by invoking the API of EPS.

NOTE

The validity period of a token obtained from IAM is 24 hours. If you want to use a token for authentication, cache it to avoid frequently calling the IAM API.

Involved APIs

To use token authentication, you need to obtain a token and add **X-Auth-Token** to the request header of API calls.

- API for obtaining tokens from IAM
- API for creating an enterprise project

Procedure

1. Obtain the token by following instructions in **Authentication**.
2. Send POST https://EPS Endpoint/v1.0/enterprise-projects.

   Add **Content-Type** and **X-Auth-Token** to the request header.

   Specify the following parameters in the request body:

   ```
   {
     "name":"enterprise_project1",
     "description": "description"
   }
   ```

   If the request is responded, **enterprise_project** is returned.

   If the request fails, an error code and error information are returned. For details, see **Error Code Description**.

   NOTE

   For details about the elements and return values of response messages, see **Creating an Enterprise Project**.

5 Enterprise Project Management APIs

5.1 API Version Querying

5.1.1 Querying API Versions

Function

This API is used to query the versions of EPS APIs.

Calling Method

For details, see **Calling APIs**.

URI

GET /

Request Parameters

None

Response Parameters

Status code: 200

Table 5-1 Response body parameters

Parameter	Type	Description
versions	Array of **VersionDetail** objects	Version list.

Table 5-2 VersionDetail

Parameter	Type	Description
id	String	Version ID, for example, v1.0.
links	Array of **Link** objects	API URL.
version	String	If the APIs of this version support microversions, the supported minimum microversion is returned. If microversions are not supported, no information is returned.
status	String	Version status. Possible values are as follows: CURRENT: primary version. SUPPORTED: earlier version which is still supported. DEPRECATED: deprecated version which may be deleted later.
updated	String	Version release time, which is a UTC time. For example, the release time of v1.0 is 2016-12-09T00:00:00Z.
min_version	String	If the APIs of this version support microversions, the supported minimum microversion is returned. If microversions are not supported, no information is returned.

Table 5-3 Link

Parameter	Type	Description
href	String	API URL.
rel	String	Self.

Status code: 400

Table 5-4 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-5 RespErrorMessage

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 401

Table 5-6 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-7 RespErrorMessage

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

Status code: 403

Table 5-8 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-9 RespErrorMessage

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

Status code: 404

Table 5-10 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-11 RespErrorMessage

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

Status code: 405

Table 5-12 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-13 RespErrorMessage

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

Status code: 406

Table 5-14 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-15 RespErrorMessage

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

Status code: 408

Table 5-16 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-17 RespErrorMessage

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

Status code: 409

Table 5-18 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-19 RespErrorMessage

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

Status code: 410

Table 5-20 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-21 RespErrorMessage

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

Status code: 412

Table 5-22 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-23 RespErrorMessage

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

Status code: 429

Table 5-24 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-25 RespErrorMessage

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

Status code: 500

Table 5-26 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-27 RespErrorMessage

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

Status code: 501

Table 5-28 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-29 RespErrorMessage

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

Status code: 503

Table 5-30 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-31 RespErrorMessage

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

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "versions" : [ {
    "id" : "v1.0",
    "links" : [ {
      "rel" : "self",
      "href" : "https://*API URL*/v1.0"
    } ],
    "version" : "",
    "status" : "CURRENT",
    "updated" : "2016-12-09T00:00:00Z",
    "min_version" : ""
  } ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class ListApiVersionsSolution {
```



```
    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        ListApiVersionsRequest request = new ListApiVersionsRequest();
        try {
            ListApiVersionsResponse response = client.listApiVersions(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListApiVersionsRequest()
        response = client.list_api_versions(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
```



```
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListApiVersionsRequest{}
    response, err := client.ListApiVersions(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found

Status Code	Description
405	Method Not Allowed
406	Not Acceptable
408	Request Timeout
409	Conflict
410	Gone
412	Precondition Failed
429	Too Many Requests
500	Internal Server Error
501	Not Implemented
503	Service Unavailable

Error Codes

See **Error Codes**.

5.1.2 Querying an API Version

Function

This API is used to querying details about an API version.

Calling Method

For details, see **Calling APIs**.

URI

GET /{api_version}

Table 5-32 Path Parameters

Parameter	Mandatory	Type	Description
api_version	Yes	String	Version ID, for example, v1.0.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-33 Response body parameters

Parameter	Type	Description
version	**VersionDetail** object	Version details.

Table 5-34 VersionDetail

Parameter	Type	Description
id	String	Version ID, for example, v1.0.
links	Array of **Link** objects	API URL.
version	String	If the APIs of this version support microversions, the supported minimum microversion is returned. If microversions are not supported, no information is returned.
status	String	Version status. Possible values are as follows: CURRENT: primary version. SUPPORTED: earlier version which is still supported. DEPRECATED: deprecated version which may be deleted later.
updated	String	Version release time, which is a UTC time. For example, the release time of v1.0 is 2016-12-09T00:00:00Z.
min_version	String	If the APIs of this version support microversions, the supported minimum microversion is returned. If microversions are not supported, no information is returned.

Table 5-35 Link

Parameter	Type	Description
href	String	API URL.
rel	String	Self.

Status code: 400

Table 5-36 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-37 RespErrorMessage

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

Status code: 401

Table 5-38 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-39 RespErrorMessage

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

Status code: 403

Table 5-40 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-41 RespErrorMessage

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

Status code: 404

Table 5-42 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-43 RespErrorMessage

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

Status code: 405

Table 5-44 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-45 RespErrorMessage

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

Status code: 406

Table 5-46 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-47 RespErrorMessage

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

Status code: 408

Table 5-48 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-49 RespErrorMessage

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

Status code: 409

Table 5-50 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-51 RespErrorMessage

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

Status code: 410

Table 5-52 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-53 RespErrorMessage

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

Status code: 412

Table 5-54 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-55 RespErrorMessage

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

Status code: 429

Table 5-56 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-57 RespErrorMessage

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

Status code: 500

Table 5-58 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-59 RespErrorMessage

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

Status code: 501

Table 5-60 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-61 RespErrorMessage

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

Status code: 503

Table 5-62 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-63 RespErrorMessage

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

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "version" : {
    "id" : "v1.0",
    "links" : [ {
      "rel" : "self",
      "href" : "https://*API URL*/v1.0"
    } ],
    "version" : "",
    "status" : "CURRENT",
    "updated" : "2016-12-09T00:00:00Z",
    "min_version" : ""
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class ShowApiVersionSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowApiVersionRequest request = new ShowApiVersionRequest();
        try {
            ShowApiVersionResponse response = client.showApiVersion(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")
```



```
    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowApiVersionRequest()
        response = client.show_api_version(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowApiVersionRequest{}
    response, err := client.ShowApiVersion(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
408	Request Timeout
409	Conflict
410	Gone
412	Precondition Failed
429	Too Many Requests
500	Internal Server Error
501	Not Implemented
503	Service Unavailable

Error Codes

See **Error Codes**.

5.2 Enterprise Project Management

5.2.1 Listing Enterprise Projects

Function

This API is used to query the list of enterprise projects that can be managed by a user. The user can add resources to an enterprise project in the list.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/enterprise-projects

Table 5-64 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	Enterprise project ID. The value 0 indicates the default enterprise project.
name	No	String	Enterprise project name. Fuzzy search is supported.
status	No	Integer	Enterprise project status. 1: enabled; 2: disabled.
limit	No	Integer	The default number of records to be queried is 1000. The maximum value is 1000 and the minimum value is 1.
offset	No	Integer	Index position. The query starts from the next data record specified by offset. The value must be a number and cannot be a negative number. The default value is 0.
sort_key	No	String	Keyword by which the results to return are sorted. Keywords such as updated_at are supported. By default, the keyword created_at is used.
sort_dir	No	String	Result sorting order. The default value is desc. desc: descending order. asc: ascending order.
type	No	String	Specifies the project type to be queried.

Request Parameters

Table 5-65 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.
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. Minimum: **0** Maximum: **2048**

Response Parameters

Status code: 200

Table 5-66 Response body parameters

Parameter	Type	Description
enterprise_projects	Array of **EpDetail** objects	Enterprise project list.
total_count	Integer	Total number of enterprise projects.

Table 5-67 EpDetail

Parameter	Type	Description
id	String	Enterprise project ID.
name	String	Enterprise project name.
description	String	Enterprise project description.
status	Integer	Enterprise project status. 1: enabled; 2: disabled.

Parameter	Type	Description
created_at	String	UTC time when the enterprise project was created, for example, 2018-05-18T06:49:06Z.
updated_at	String	UTC time when the enterprise project was modified, for example, 2018-05-28T02:21:36Z.
type	String	Project type. prod: commercial project; poc: test project

Status code: 400

Table 5-68 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-69 RespErrorMessage

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

Status code: 401

Table 5-70 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-71 RespErrorMessage

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

Status code: 402

Table 5-72 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-73 RespErrorMessage

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

Status code: 403

Table 5-74 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-75 RespErrorMessage

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

Status code: 404

Table 5-76 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-77 RespErrorMessage

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

Status code: 405

Table 5-78 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-79 RespErrorMessage

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

Status code: 406

Table 5-80 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-81 RespErrorMessage

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

Status code: 407

Table 5-82 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-83 RespErrorMessage

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

Status code: 408

Table 5-84 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-85 RespErrorMessage

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

Status code: 409

Table 5-86 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-87 RespErrorMessage

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

Status code: 500

Table 5-88 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-89 RespErrorMessage

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

Status code: 501

Table 5-90 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-91 RespErrorMessage

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

Status code: 502

Table 5-92 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-93 RespErrorMessage

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

Status code: 503

Table 5-94 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-95 RespErrorMessage

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

Status code: 504

Table 5-96 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-97 RespErrorMessage

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

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "enterprise_projects" : [ {
    "id" : "6fbcf2f3-3164-4d32-9a3e-a8886dc38c24",
    "name" : "auto_test",
    "description" : "hello world!",
    "status" : 1,
    "type" : "prod",
    "created_at" : "2018-05-18T06:49:06Z",
    "updated_at" : "2018-05-28T02:21:36Z"
  } ],
  "total_count" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class ListEnterpriseProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
```



```
            .withSk(sk);

    EpsClient client = EpsClient.newBuilder()
            .withCredential(auth)
            .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
            .build();
    ListEnterpriseProjectRequest request = new ListEnterpriseProjectRequest();
    request.withId("<id>");
    request.withLimit(<limit>);
    request.withName("<name>");
    request.withOffset(<offset>);
    request.withSortDir(ListEnterpriseProjectRequest.SortDirEnum.fromValue("<sort_dir>"));
    request.withSortKey(ListEnterpriseProjectRequest.SortKeyEnum.fromValue("<sort_key>"));
    request.withStatus(<status>);
    try {
        ListEnterpriseProjectResponse response = client.listEnterpriseProject(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
  }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListEnterpriseProjectRequest()
        request.id = "<id>"
        request.limit = <limit>
        request.name = "<name>"
        request.offset = <offset>
        request.sort_dir = "<sort_dir>"
        request.sort_key = "<sort_key>"
        request.status = <status>
        response = client.list_enterprise_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
```



```
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListEnterpriseProjectRequest{}
    idRequest:= "<id>"
    request.Id = &idRequest
    limitRequest:= int32(<limit>)
    request.Limit = &limitRequest
    nameRequest:= "<name>"
    request.Name = &nameRequest
    offsetRequest:= int32(<offset>)
    request.Offset = &offsetRequest
    sortDirRequest:= model.GetListEnterpriseProjectRequestSortDirEnum().<SORT_DIR>
    request.SortDir = &sortDirRequest
    sortKeyRequest:= model.GetListEnterpriseProjectRequestSortKeyEnum().<SORT_KEY>
    request.SortKey = &sortKeyRequest
    statusRequest:= int32(<status>)
    request.Status = &statusRequest
    response, err := client.ListEnterpriseProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required
408	Request Timeout
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.2 Creating an Enterprise Project

Function

This API is used to create an enterprise project.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/enterprise-projects

Request Parameters

Table 5-98 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.
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. Minimum: **0** Maximum: **2048**

Table 5-99 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	The value can contain a maximum of 64 characters consisting of letters, digits, underscores (_), and hyphens (-). The name cannot be default and must be unique in the tenant account.
description	No	String	A description can contain a maximum of 512 characters. Maximum: **512**
type	No	String	Enterprise project type. Default: **prod**

Response Parameters

Status code: 201

Table 5-100 Response body parameters

Parameter	Type	Description
enterprise_project	**EpDetail** object	Enterprise project.

Table 5-101 EpDetail

Parameter	Type	Description
id	String	Enterprise project ID.
name	String	Enterprise project name.
description	String	Enterprise project description.
status	Integer	Enterprise project status. 1: enabled; 2: disabled.
created_at	String	UTC time when the enterprise project was created, for example, 2018-05-18T06:49:06Z.
updated_at	String	UTC time when the enterprise project was modified, for example, 2018-05-28T02:21:36Z.
type	String	Project type. prod: commercial project; poc: test project

Status code: 400

Table 5-102 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-103 RespErrorMessage

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

Status code: 401

Table 5-104 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-105 RespErrorMessage

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

Status code: 402

Table 5-106 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-107 RespErrorMessage

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

Status code: 403

Table 5-108 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-109 RespErrorMessage

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

Status code: 404

Table 5-110 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-111 RespErrorMessage

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

Status code: 405

Table 5-112 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-113 RespErrorMessage

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

Status code: 406

Table 5-114 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-115 RespErrorMessage

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

Status code: 409

Table 5-116 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-117 RespErrorMessage

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

Status code: 500

Table 5-118 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-119 RespErrorMessage

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

Status code: 501

Table 5-120 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-121 RespErrorMessage

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

Status code: 502

Table 5-122 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-123 RespErrorMessage

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

Status code: 503

Table 5-124 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-125 RespErrorMessage

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

Status code: 504

Table 5-126 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-127 RespErrorMessage

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

Example Requests

```
POST https://{Endpoint}/v1.0/enterprise-projects

{
  "name" : "enterprise_project1",
  "description" : "Specifies the description.",
  "type" : "prod"
}
```

Example Responses

Status code: 201

Created

```
{
  "enterprise_project" : {
    "id" : "5aa119a8-d25b-45a7-8d1b-88e127885635",
```



```
    "name" : "enterprise_project1",
    "description" : "Specifies the description.",
    "type" : "prod",
    "status" : 1,
    "created_at" : "2016-03-28T00:00:00Z",
    "updated_at" : "2016-03-28T00:00:00Z"
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class CreateEnterpriseProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        CreateEnterpriseProjectRequest request = new CreateEnterpriseProjectRequest();
        EnterpriseProject body = new EnterpriseProject();
        body.withType("prod");
        body.withDescription("Specifies the description.");
        body.withName("enterprise_project1");
        request.withBody(body);
        try {
            CreateEnterpriseProjectResponse response = client.createEnterpriseProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```


Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateEnterpriseProjectRequest()
        request.body = EnterpriseProject(
            type="prod",
            description="Specifies the description.",
            name="enterprise_project1"
        )
        response = client.create_enterprise_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
```



```
        WithCredential(auth).
        Build())

    request := &model.CreateEnterpriseProjectRequest{}
    typeEnterpriseProject:= "prod"
    descriptionEnterpriseProject:= "Specifies the description."
    request.Body = &model.EnterpriseProject{
        Type: &typeEnterpriseProject,
        Description: &descriptionEnterpriseProject,
        Name: "enterprise_project1",
    }
    response, err := client.CreateEnterpriseProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
201	Created
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.3 Querying an Enterprise Project

Function

This API is used to query details about an enterprise project.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/enterprise-projects/{enterprise_project_id}

Table 5-128 Path Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	Yes	String	Enterprise project ID. You can obtain the value by calling the API for listing enterprise projects.

Request Parameters

Table 5-129 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-130 Response body parameters

Parameter	Type	Description
enterprise_project	**EpDetail** object	Enterprise project.

Table 5-131 EpDetail

Parameter	Type	Description
id	String	Enterprise project ID.
name	String	Enterprise project name.
description	String	Enterprise project description.
status	Integer	Enterprise project status. 1: enabled; 2: disabled.
created_at	String	UTC time when the enterprise project was created, for example, 2018-05-18T06:49:06Z.
updated_at	String	UTC time when the enterprise project was modified, for example, 2018-05-28T02:21:36Z.
type	String	Project type. prod: commercial project; poc: test project

Status code: 400

Table 5-132 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-133 RespErrorMessage

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

Status code: 401

Table 5-134 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-135 RespErrorMessage

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

Status code: 402

Table 5-136 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-137 RespErrorMessage

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

Status code: 403

Table 5-138 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-139 RespErrorMessage

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

Status code: 404

Table 5-140 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-141 RespErrorMessage

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

Status code: 405

Table 5-142 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-143 RespErrorMessage

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

Status code: 406

Table 5-144 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-145 RespErrorMessage

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

Status code: 407

Table 5-146 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-147 RespErrorMessage

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

Status code: 408

Table 5-148 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-149 RespErrorMessage

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

Status code: 409

Table 5-150 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-151 RespErrorMessage

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

Status code: 410

Table 5-152 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-153 RespErrorMessage

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

Status code: 500

Table 5-154 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-155 RespErrorMessage

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

Status code: 501

Table 5-156 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-157 RespErrorMessage

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

Status code: 502

Table 5-158 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-159 RespErrorMessage

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

Status code: 503

Table 5-160 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-161 RespErrorMessage

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

Status code: 504

Table 5-162 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-163 RespErrorMessage

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

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "enterprise_project" : {
    "id" : "5aa119a8-d25b-45a7-8d1b-88e127885635",
    "name" : "enterprise_project1",
    "description" : "Specifies the description.",
    "type" : "prod",
    "status" : 1,
    "created_at" : "2016-03-28T00:00:00Z",
```



```
    "updated_at" : "2016-03-28T00:00:00Z"
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class ShowEnterpriseProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowEnterpriseProjectRequest request = new ShowEnterpriseProjectRequest();
        try {
            ShowEnterpriseProjectResponse response = client.showEnterpriseProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *
```



```
if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowEnterpriseProjectRequest()
        response = client.show_enterprise_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowEnterpriseProjectRequest{}
    response, err := client.ShowEnterpriseProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```


More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required
408	Request Timeout
409	Conflict
410	Gone
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.4 Modifying an Enterprise Project

Function

This API is used to modify an enterprise project. Currently, only the name and description can be modified.

Calling Method

For details, see **Calling APIs**.

URI

PUT /v1.0/enterprise-projects/{enterprise_project_id}

Table 5-164 Path Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	Yes	String	Enterprise project ID, which cannot be 0. You can obtain the value by calling the API for listing enterprise projects.

Request Parameters

Table 5-165 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.
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. Minimum: **0** Maximum: **2048**

Table 5-166 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	The value can contain a maximum of 64 characters consisting of letters, digits, underscores (_), and hyphens (-). The name cannot be default and must be unique in the tenant account.
description	No	String	A description can contain a maximum of 512 characters. Maximum: **512**
type	No	String	Enterprise project type. Default: **prod**

Response Parameters

Status code: 200

Table 5-167 Response body parameters

Parameter	Type	Description
enterprise_project	**EpDetail** object	Enterprise project.

Table 5-168 EpDetail

Parameter	Type	Description
id	String	Enterprise project ID.
name	String	Enterprise project name.
description	String	Enterprise project description.
status	Integer	Enterprise project status. 1: enabled; 2: disabled.
created_at	String	UTC time when the enterprise project was created, for example, 2018-05-18T06:49:06Z.
updated_at	String	UTC time when the enterprise project was modified, for example, 2018-05-28T02:21:36Z.
type	String	Project type. prod: commercial project; poc: test project

Status code: 400

Table 5-169 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-170 RespErrorMessage

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

Status code: 401

Table 5-171 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-172 RespErrorMessage

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

Status code: 402

Table 5-173 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-174 RespErrorMessage

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

Status code: 403

Table 5-175 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-176 RespErrorMessage

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

Status code: 404

Table 5-177 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-178 RespErrorMessage

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

Status code: 405

Table 5-179 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-180 RespErrorMessage

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

Status code: 406

Table 5-181 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-182 RespErrorMessage

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

Status code: 407

Table 5-183 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-184 RespErrorMessage

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

Status code: 408

Table 5-185 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-186 RespErrorMessage

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

Status code: 409

Table 5-187 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-188 RespErrorMessage

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

Status code: 410

Table 5-189 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-190 RespErrorMessage

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

Status code: 500

Table 5-191 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-192 RespErrorMessage

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

Status code: 501

Table 5-193 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-194 RespErrorMessage

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

Status code: 502

Table 5-195 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-196 RespErrorMessage

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

Status code: 503

Table 5-197 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-198 RespErrorMessage

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

Status code: 504

Table 5-199 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-200 RespErrorMessage

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

Example Requests

Modifying an Enterprise Project

```
PUT https://{Endpoint}/v1.0/enterprise-projects/{enterprise_project_id}

{
  "name" : "enterprise_project1",
  "description" : "Specifies the description."
}
```

Example Responses

Status code: 200

OK

```
{
  "enterprise_project" : {
    "id" : "5aa119a8-d25b-45a7-8d1b-88e127885635",
    "name" : "enterprise_project1",
    "description" : "Specifies the description.",
    "status" : 1,
    "type" : "prod",
    "created_at" : "2016-03-28T00:00:00Z",
    "updated_at" : "2016-03-28T00:00:00Z"
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Modifying an Enterprise Project

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```



```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class UpdateEnterpriseProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        UpdateEnterpriseProjectRequest request = new UpdateEnterpriseProjectRequest();
        EnterpriseProject body = new EnterpriseProject();
        body.withDescription("Specifies the description.");
        body.withName("enterprise_project1");
        request.withBody(body);
        try {
            UpdateEnterpriseProjectResponse response = client.updateEnterpriseProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Modifying an Enterprise Project

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \
```



```
    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateEnterpriseProjectRequest()
        request.body = EnterpriseProject(
            description="Specifies the description.",
            name="enterprise_project1"
        )
        response = client.update_enterprise_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Modifying an Enterprise Project

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateEnterpriseProjectRequest{}
    descriptionEnterpriseProject:= "Specifies the description."
    request.Body = &model.EnterpriseProject{
        Description: &descriptionEnterpriseProject,
        Name: "enterprise_project1",
    }
    response, err := client.UpdateEnterpriseProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```


More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required
408	Request Timeout
409	Conflict
410	Gone
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.5 Enabling an Enterprise Project

Function

This API is used to enable an enterprise project.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/enterprise-projects/{enterprise_project_id}/action

Table 5-201 Path Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	Yes	String	Enterprise project ID, which cannot be 0.

Request Parameters

Table 5-202 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.
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. Minimum: **0** Maximum: **2048**

Table 5-203 Request body parameters

Parameter	Mandatory	Type	Description
action	Yes	String	Enabling operation. Default: **enable**

Response Parameters

Status code: 400

Table 5-204 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-205 RespErrorMessage

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

Status code: 401

Table 5-206 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-207 RespErrorMessage

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

Status code: 402

Table 5-208 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-209 RespErrorMessage

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

Status code: 403

Table 5-210 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-211 RespErrorMessage

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

Status code: 404

Table 5-212 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-213 RespErrorMessage

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

Status code: 405

Table 5-214 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-215 RespErrorMessage

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

Status code: 406

Table 5-216 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-217 RespErrorMessage

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

Status code: 407

Table 5-218 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-219 RespErrorMessage

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

Status code: 408

Table 5-220 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-221 RespErrorMessage

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

Status code: 409

Table 5-222 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-223 RespErrorMessage

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

Status code: 500

Table 5-224 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-225 RespErrorMessage

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

Status code: 501

Table 5-226 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-227 RespErrorMessage

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

Status code: 502

Table 5-228 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-229 RespErrorMessage

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

Status code: 503

Table 5-230 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-231 RespErrorMessage

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

Status code: 504

Table 5-232 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-233 RespErrorMessage

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

Example Requests

Enabling an enterprise project

```
POST https://{Endpoint}/v1.0/enterprise-projects/{enterprise_project_id}/action
```



```
{
  "action" : "enable"
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

Enabling an enterprise project

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class EnableEnterpriseProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        EnableEnterpriseProjectRequest request = new EnableEnterpriseProjectRequest();
        EnableAction body = new EnableAction();
        body.withAction(EnableAction.ActionEnum.fromValue("enable"));
        request.withBody(body);
        try {
            EnableEnterpriseProjectResponse response = client.enableEnterpriseProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```


Python

Enabling an enterprise project

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = EnableEnterpriseProjectRequest()
        request.body = EnableAction(
            action="enable"
        )
        response = client.enable_enterprise_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Enabling an enterprise project

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()
```



```
    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.EnableEnterpriseProjectRequest{}
    request.Body = &model.EnableAction{
        Action: model.GetEnableActionActionEnum().ENABLE,
    }
    response, err := client.EnableEnterpriseProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required
408	Request Timeout
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.6 Disabling an Enterprise Project

Function

This API is used to disable an enterprise project.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/enterprise-projects/{enterprise_project_id}/action

Table 5-234 Path Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	Yes	String	Enterprise project ID. The value cannot be 0.

Request Parameters

Table 5-235 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. EPS is a global service. Therefore, when calling the IAM API for obtaining a user token, set scope to domain. The value of X-Subject-Token in the response header is the user token.
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. Minimum: **0** Maximum: **2048**

Table 5-236 Request body parameters

Parameter	Mandatory	Type	Description
action	Yes	String	Disabling operation. Default: **disable**

Response Parameters

Status code: 400

Table 5-237 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-238 RespErrorMessage

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

Status code: 401

Table 5-239 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-240 RespErrorMessage

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

Status code: 402

Table 5-241 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-242 RespErrorMessage

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

Status code: 403

Table 5-243 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-244 RespErrorMessage

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

Status code: 404

Table 5-245 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-246 RespErrorMessage

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

Status code: 405

Table 5-247 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-248 RespErrorMessage

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

Status code: 406

Table 5-249 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-250 RespErrorMessage

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

Status code: 407

Table 5-251 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-252 RespErrorMessage

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

Status code: 408

Table 5-253 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-254 RespErrorMessage

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

Status code: 409

Table 5-255 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-256 RespErrorMessage

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

Status code: 500

Table 5-257 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-258 RespErrorMessage

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

Status code: 501

Table 5-259 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-260 RespErrorMessage

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

Status code: 502

Table 5-261 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-262 RespErrorMessage

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

Status code: 503

Table 5-263 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-264 RespErrorMessage

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

Status code: 504

Table 5-265 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-266 RespErrorMessage

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

Example Requests

Disabling an Enterprise Project

```
POST https://{Endpoint}/v1.0/enterprise-projects/{enterprise_project_id}/action

{
  "action" : "disable"
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

Disabling an Enterprise Project

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class DisableEnterpriseProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
```



```
        DisableEnterpriseProjectRequest request = new DisableEnterpriseProjectRequest();
        DisableAction body = new DisableAction();
        body.withAction(DisableAction.ActionEnum.fromValue("disable"));
        request.withBody(body);
        try {
            DisableEnterpriseProjectResponse response = client.disableEnterpriseProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Disabling an Enterprise Project

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = DisableEnterpriseProjectRequest()
        request.body = DisableAction(
            action="disable"
        )
        response = client.disable_enterprise_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Disabling an Enterprise Project

```
package main

import (
```



```
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DisableEnterpriseProjectRequest{}
    request.Body = &model.DisableAction{
        Action: model.GetDisableActionActionEnum().DISABLE,
    }
    response, err := client.DisableEnterpriseProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable

Status Code	Description
407	Proxy Authentication Required
408	Request Timeout
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.7 Querying the Enterprise Project Quota

Function

This API is used to query the enterprise project quota.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/enterprise-projects/quotas

Request Parameters

Table 5-267 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-268 Response body parameters

Parameter	Type	Description
quotas	**QuotasDetail** object	Enterprise project quota.

Table 5-269 QuotasDetail

Parameter	Type	Description
resources	Array of **EpQuotas** objects	Resource quota.

Table 5-270 EpQuotas

Parameter	Type	Description
quota	Integer	Total quota.
type	String	Resource type.
used	Integer	Used amount of a quota.

Status code: 400

Table 5-271 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-272 RespErrorMessage

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

Status code: 401

Table 5-273 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-274 RespErrorMessage

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

Status code: 402

Table 5-275 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-276 RespErrorMessage

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

Status code: 403

Table 5-277 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-278 RespErrorMessage

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

Status code: 404

Table 5-279 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-280 RespErrorMessage

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

Status code: 405

Table 5-281 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-282 RespErrorMessage

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

Status code: 406

Table 5-283 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-284 RespErrorMessage

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

Status code: 407

Table 5-285 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-286 RespErrorMessage

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

Status code: 408

Table 5-287 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-288 RespErrorMessage

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

Status code: 409

Table 5-289 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-290 RespErrorMessage

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

Status code: 500

Table 5-291 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-292 RespErrorMessage

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

Status code: 501

Table 5-293 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-294 RespErrorMessage

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

Status code: 502

Table 5-295 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-296 RespErrorMessage

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

Status code: 503

Table 5-297 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-298 RespErrorMessage

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

Status code: 504

Table 5-299 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-300 RespErrorMessage

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

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "quotas" : {
    "resources" : [ {
      "type" : "enterprise_project",
      "used" : 3,
      "quota" : 100
    } ]
  }
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;
```



```
import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class ShowEnterpriseProjectQuotaSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowEnterpriseProjectQuotaRequest request = new ShowEnterpriseProjectQuotaRequest();
        try {
            ShowEnterpriseProjectQuotaResponse response = client.showEnterpriseProjectQuota(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
```



```
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowEnterpriseProjectQuotaRequest()
        response = client.show_enterprise_project_quota(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowEnterpriseProjectQuotaRequest{}
    response, err := client.ShowEnterpriseProjectQuota(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required
408	Request Timeout
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.8 Listing Resources in an Enterprise Project

Function

This API is used to query resources added to an enterprise project.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/enterprise-projects/{enterprise_project_id}/resources/filter

Table 5-301 Path Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	Yes	String	Enterprise project ID.

Request Parameters

Table 5-302 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.
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. Minimum: **0** Maximum: **2048**

Table 5-303 Request body parameters

Parameter	Mandatory	Type	Description
projects	No	Array of strings	Project IDs. This parameter is mandatory when resource_types contains a region-level service.
resource_types	Yes	Array of strings	Specifies the resource type list. The value of this parameter is case sensitive. For example, **ecs**,**scaling_group**, **images**, **disk**, **vpcs**,**security-groups**, **shared_bandwidth**,**eip** and **cdn**. For details, see the section "Appendix - Resource Types Supported by EPS".

Parameter	Mandatory	Type	Description
offset	No	Integer	Index position. The query starts from the next data record specified by offset. The value must be a number and cannot be a negative number. The default value is 0.
limit	No	Integer	Number of records to be queried. If this parameter is not passed, the default value 1000 is used. The maximum value is 1000 and the minimum value is 1.
matches	No	Array of **Match** objects	Search field. key indicates the field to be matched and is fixed at resource_name. value indicates the value to be matched. If this field is not passed, no matching condition will be used.

Table 5-304 Match

Parameter	Mandatory	Type	Description
key	Yes	String	Key. If the matches parameter is passed, this parameter is mandatory and is fixed at resource_name.
value	Yes	String	Value, which is the resource name. If the matches parameter is passed, this parameter is mandatory and fuzzy search is used by default, for example, message.com. A value can contain a maximum of 255 characters. Maximum: **255**

Response Parameters

Status code: 200

Table 5-305 Response body parameters

Parameter	Type	Description
resources	Array of **Resources** objects	Resource list.
errors	Array of **Errors** objects	Resources bound to enterprise projects that failed to be queried.
total_count	Integer	Total number of resources in enterprise projects.

Table 5-306 Resources

Parameter	Type	Description
enterprise_project_id	String	Enterprise project ID.
project_id	String	ProjectID
project_name	String	Project name.
resource_detail	Object	Resource details.
resource_id	String	Resource ID.
resource_name	String	Resource name.
resource_type	String	Resource type.

Table 5-307 Errors

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
project_id	String	ProjectID
resource_type	String	Resource type.

Status code: 400

Table 5-308 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-309 RespErrorMessage

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

Status code: 401

Table 5-310 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-311 RespErrorMessage

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

Status code: 402

Table 5-312 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-313 RespErrorMessage

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

Status code: 403

Table 5-314 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-315 RespErrorMessage

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

Status code: 404

Table 5-316 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-317 RespErrorMessage

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

Status code: 405

Table 5-318 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-319 RespErrorMessage

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

Status code: 406

Table 5-320 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-321 RespErrorMessage

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

Status code: 407

Table 5-322 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-323 RespErrorMessage

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

Status code: 408

Table 5-324 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-325 RespErrorMessage

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

Status code: 409

Table 5-326 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-327 RespErrorMessage

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

Status code: 500

Table 5-328 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-329 RespErrorMessage

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

Status code: 501

Table 5-330 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-331 RespErrorMessage

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

Status code: 502

Table 5-332 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-333 RespErrorMessage

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

Status code: 503

Table 5-334 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-335 RespErrorMessage

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

Status code: 504

Table 5-336 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-337 RespErrorMessage

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

Example Requests

Listing Resources in an Enterprise Project

```
POST https://{Endpoint}/v1.0/enterprise-projects/{enterprise_project_id}/resources/filter
```



```
{
  "projects" : [ "e1eb7c40cbea4c8389cde527594a306d", "2345d321da864d6faf2e762647e19f96" ],
  "resource_types" : [ "disk" ],
  "offset" : 0,
  "limit" : 10,
  "matches" : [ {
    "key" : "resource_name",
    "value" : "lhj"
  } ]
}
```

Example Responses

Status code: 200

OK

```
{
  "resources" : [ {
    "project_id" : "e1eb7c40cbea4c8389cde527594a306d",
    "project_name" : "XXXX",
    "resource_type" : "disk",
    "resource_id" : "b621f5ae-b5c1-49d7-a660-752c445434b4",
    "resource_name" : "lhj1-volume-0001",
    "resource_detail" : null,
    "enterprise_project_id" : "0"
  }, {
    "project_id" : "e1eb7c40cbea4c8389cde527594a306d",
    "project_name" : "XXXX",
    "resource_type" : "disk",
    "resource_id" : "87c9edc9-f66c-48b8-a22f-372b2e22d579",
    "resource_name" : "lhj2-volume-0002",
    "resource_detail" : null,
    "enterprise_project_id" : "0"
  } ],
  "errors" : [ ],
  "total_count" : 2
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Listing Resources in an Enterprise Project

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;

import java.util.List;
import java.util.ArrayList;

public class ShowResourceBindEnterpriseProjectSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
```



```
environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        ShowResourceBindEnterpriseProjectRequest request = new
ShowResourceBindEnterpriseProjectRequest();
        ResqEpResouce body = new ResqEpResouce();
        List<Match> listbodyMatches = new ArrayList<>();
        listbodyMatches.add(
            new Match()
                .withKey("resource_name")
                .withValue("lhj")
        );
        List<String> listbodyResourceTypes = new ArrayList<>();
        listbodyResourceTypes.add("disk");
        List<String> listbodyProjects = new ArrayList<>();
        listbodyProjects.add("e1eb7c40cbea4c8389cde527594a306d");
        listbodyProjects.add("2345d321da864d6faf2e762647e19f96");
        body.withMatches(listbodyMatches);
        body.withLimit(10);
        body.withOffset(0);
        body.withResourceTypes(listbodyResourceTypes);
        body.withProjects(listbodyProjects);
        request.withBody(body);
        try {
            ShowResourceBindEnterpriseProjectResponse response =
client.showResourceBindEnterpriseProject(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Listing Resources in an Enterprise Project

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```



```
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowResourceBindEnterpriseProjectRequest()
        listMatchesbody = [
            Match(
                key="resource_name",
                value="lhj"
            )
        ]
        listResourceTypesbody = [
            "disk"
        ]
        listProjectsbody = [
            "e1eb7c40cbea4c8389cde527594a306d",
            "2345d321da864d6faf2e762647e19f96"
        ]
        request.body = ResqEpResouce(
            matches=listMatchesbody,
            limit=10,
            offset=0,
            resource_types=listResourceTypesbody,
            projects=listProjectsbody
        )
        response = client.show_resource_bind_enterprise_project(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Listing Resources in an Enterprise Project

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
```



```
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowResourceBindEnterpriseProjectRequest{}
    var listMatchesbody = []model.Match{
        {
            Key: "resource_name",
            Value: "lhj",
        },
    }
    var listResourceTypesbody = []string{
        "disk",
    }
    var listProjectsbody = []string{
        "e1eb7c40cbea4c8389cde527594a306d",
        "2345d321da864d6faf2e762647e19f96",
    }
    limitResqEpResouce:= int32(10)
    offsetResqEpResouce:= int32(0)
    request.Body = &model.ResqEpResouce{
        Matches: &listMatchesbody,
        Limit: &limitResqEpResouce,
        Offset: &offsetResqEpResouce,
        ResourceTypes: listResourceTypesbody,
        Projects: &listProjectsbody,
    }
    response, err := client.ShowResourceBindEnterpriseProject(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required

Status Code	Description
408	Request Timeout
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.2.9 Migrating Resources

Function

This API is used to migrate resources to a target enterprise project.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/enterprise-projects/{enterprise_project_id}/resources-migrate

Table 5-338 Path Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	Yes	String	ID of the target enterprise project. If enterprise_project_id is set to 0, resources are migrated to the default enterprise project.

Request Parameters

Table 5-339 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.
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. Minimum: **0** Maximum: **2048**

Table 5-340 Request body parameters

Parameter	Mandatory	Type	Description
project_id	No	String	Project ID. This parameter is mandatory when resource_type is set to a region-level resource.If resource_type is set to global, leave this parameter blank or leave it blank.
resource_id	Yes	String	Resource ID.
resource_type	Yes	String	Specifies the resource type. For details, see the section "Appendix - Resource Types Supported by EPS".
region_id	No	String	Specifies the region ID. This parameter is mandatory when **resource_type** is set to **bucket**.
associated	No	Boolean	Whether associated resources are migrated. Currently, only ECS associated EVS disks and EIPs can be migrated. Default: **false**

Response Parameters

Status code: 400

Table 5-341 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-342 RespErrorMessage

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

Status code: 401

Table 5-343 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-344 RespErrorMessage

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

Status code: 402

Table 5-345 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-346 RespErrorMessage

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

Status code: 403

Table 5-347 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-348 RespErrorMessage

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

Status code: 404

Table 5-349 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-350 RespErrorMessage

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

Status code: 405

Table 5-351 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-352 RespErrorMessage

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

Status code: 406

Table 5-353 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-354 RespErrorMessage

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

Status code: 407

Table 5-355 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-356 RespErrorMessage

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

Status code: 408

Table 5-357 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-358 RespErrorMessage

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

Status code: 409

Table 5-359 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-360 RespErrorMessage

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

Status code: 500

Table 5-361 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-362 RespErrorMessage

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

Status code: 501

Table 5-363 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-364 RespErrorMessage

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

Status code: 502

Table 5-365 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-366 RespErrorMessage

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

Status code: 503

Table 5-367 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-368 RespErrorMessage

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

Status code: 504

Table 5-369 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-370 RespErrorMessage

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

Example Requests

Migrating Enterprise Project Resources

```
POST https://{Endpoint}/v1.0/enterprise-projects/{enterprise_project_id}/resources-migrate
```



```
{
  "project_id" : "0f02faab61ab497997867b2c9ef193a2",
  "associated" : false,
  "resource_type" : "eip",
  "resource_id" : "e220166e-a6b1-4bb4-9abf-950b367212e8"
}
```

Example Responses

None

SDK Sample Code

The SDK sample code is as follows.

Java

Migrating Enterprise Project Resources

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class MigrateResourceSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        MigrateResourceRequest request = new MigrateResourceRequest();
        MigrateResource body = new MigrateResource();
        body.withAssociated(false);
        body.withResourceType("eip");
        body.withResourceId("e220166e-a6b1-4bb4-9abf-950b367212e8");
        body.withProjectId("0f02faab61ab497997867b2c9ef193a2");
        request.withBody(body);
        try {
            MigrateResourceResponse response = client.migrateResource(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
```



```
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Migrating Enterprise Project Resources

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = MigrateResourceRequest()
        request.body = MigrateResource(
            associated=False,
            resource_type="eip",
            resource_id="e220166e-a6b1-4bb4-9abf-950b367212e8",
            project_id="0f02faab61ab497997867b2c9ef193a2"
        )
        response = client.migrate_resource(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Migrating Enterprise Project Resources

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```



```
variables and decrypted during use to ensure security.
   // In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
   ak := os.Getenv("CLOUD_SDK_AK")
   sk := os.Getenv("CLOUD_SDK_SK")

   auth := global.NewCredentialsBuilder().
      WithAk(ak).
      WithSk(sk).
      Build()

   client := eps.NewEpsClient(
      eps.EpsClientBuilder().
         WithRegion(region.ValueOf("<YOUR REGION>")).
         WithCredential(auth).
         Build())

   request := &model.MigrateResourceRequest{}
   associatedMigrateResource:= false
   projectIdMigrateResource:= "0f02faab61ab497997867b2c9ef193a2"
   request.Body = &model.MigrateResource{
      Associated: &associatedMigrateResource,
      ResourceType: "eip",
      ResourceId: "e220166e-a6b1-4bb4-9abf-950b367212e8",
      ProjectId: &projectIdMigrateResource,
   }
   response, err := client.MigrateResource(request)
   if err == nil {
      fmt.Printf("%+v\n", response)
   } else {
      fmt.Println(err)
   }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required
408	Request Timeout

Status Code	Description
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

5.3 Querying Services Supported by Enterprise Projects

5.3.1 Querying Services Supported by Enterprise Projects

Function

Specifies services supported by enterprise projects.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/enterprise-projects/providers

Table 5-371 Query Parameters

Parameter	Mandatory	Type	Description
locale	No	String	Specifies the display language. Default: **zh-cn**
limit	No	Integer	The number of records to be queried is **10** by default. The maximum value of **limit** is **200** and its minimum value is **1**.

Parameter	Mandatory	Type	Description
offset	No	Integer	Specifies the index position. The query starts from the next data record specified by **offset**. The value must be a number and cannot be a negative number. The default value is **0**.
provider	No	String	Specifies the cloud service name.

Request Parameters

Table 5-372 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. EPS is a global service. Therefore, when calling the IAM API to obtain a user token, set the **scope** field to **domain**. The value of **X-Subject-Token** in the response header is the user token.

Response Parameters

Status code: 200

Table 5-373 Response body parameters

Parameter	Type	Description
providers	Array of **ProviderResponseBody** objects	Specifies cloud services.
total_count	Integer	Specifies the total number of cloud services supported by EPS.

Table 5-374 ProviderResponseBody

Parameter	Type	Description
provider	String	Specifies the cloud service name.
provider_i18n_display_name	String	Specifies the display name of the cloud service. You can set the language by setting the **locale** parameter.
resource_types	Array of **ResourceTypeBody** objects	Specifies the resource type list.

Table 5-375 ResourceTypeBody

Parameter	Type	Description
resource_type	String	Specifies the name of the resource type.
resource_type_i18n_display_name	String	Specifies the display name of the resource type. You can set the language by setting the **locale** parameter.
regions	Array of strings	Specifies regions supported.
global	Boolean	Specifies whether the resource is a global resource.

Status code: 400

Table 5-376 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-377 RespErrorMessage

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

Status code: 401

Table 5-378 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-379 RespErrorMessage

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

Status code: 402

Table 5-380 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-381 RespErrorMessage

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

Status code: 403

Table 5-382 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-383 RespErrorMessage

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

Status code: 404

Table 5-384 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-385 RespErrorMessage

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

Status code: 405

Table 5-386 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-387 RespErrorMessage

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

Status code: 406

Table 5-388 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-389 RespErrorMessage

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

Status code: 407

Table 5-390 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-391 RespErrorMessage

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

Status code: 408

Table 5-392 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-393 RespErrorMessage

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

Status code: 409

Table 5-394 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-395 RespErrorMessage

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

Status code: 500

Table 5-396 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-397 RespErrorMessage

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

Status code: 501

Table 5-398 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-399 RespErrorMessage

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

Status code: 502

Table 5-400 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-401 RespErrorMessage

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

Status code: 503

Table 5-402 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-403 RespErrorMessage

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

Status code: 504

Table 5-404 Response body parameters

Parameter	Type	Description
error	**RespErrorMessage** object	Error request information.

Table 5-405 RespErrorMessage

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

Example Requests

Querying services supported by enterprise projects

```
GET https://{Endpoint}/v1.0/enterprise-projects/providers
```

Example Responses

Status code: 200

OK

```
{
  "providers" : [ {
    "provider" : "evs",
    "provider_i18n_display_name" : "Elastic Volume Service",
    "resource_types" : {
      "resource_type_i18n_display_name" : "volume",
      "global" : false,
      "resource_type" : "disk",
      "regions" : [ "cn-north-1" ]
    }
  } ],
  "total_count" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.GlobalCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.eps.v1.region.EpsRegion;
import com.huaweicloud.sdk.eps.v1.*;
import com.huaweicloud.sdk.eps.v1.model.*;


public class ListProvidersSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new GlobalCredentials()
                .withAk(ak)
                .withSk(sk);

        EpsClient client = EpsClient.newBuilder()
                .withCredential(auth)
                .withRegion(EpsRegion.valueOf("<YOUR REGION>"))
                .build();
        ListProvidersRequest request = new ListProvidersRequest();
        request.withLocale(ListProvidersRequest.LocaleEnum.fromValue("<locale>"));
        request.withLimit(<limit>);
        request.withOffset(<offset>);
        request.withProvider("<provider>");
        try {
            ListProvidersResponse response = client.listProviders(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import GlobalCredentials
from huaweicloudsdkeps.v1.region.eps_region import EpsRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkeps.v1 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
```



```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = os.getenv("CLOUD_SDK_AK")
    sk = os.getenv("CLOUD_SDK_SK")

    credentials = GlobalCredentials(ak, sk) \

    client = EpsClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(EpsRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ListProvidersRequest()
        request.locale = "<locale>"
        request.limit = <limit>
        request.offset = <offset>
        request.provider = "<provider>"
        response = client.list_providers(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/global"
    eps "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/eps/v1/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := global.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := eps.NewEpsClient(
        eps.EpsClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProvidersRequest{}
    localeRequest:= model.GetListProvidersRequestLocaleEnum().<LOCALE>
    request.Locale = &localeRequest
    limitRequest:= int32(<limit>)
    request.Limit = &limitRequest
    offsetRequest:= int32(<offset>)
    request.Offset = &offsetRequest
    providerRequest:= "<provider>"
    request.Provider = &providerRequest
    response, err := client.ListProviders(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
```



```
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code of more programming languages, see the Sample Code tab in **API Explorer**. SDK sample code can be automatically generated.

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
402	Payment Required
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
407	Proxy Authentication Required
408	Request Timeout
409	Conflict
500	Internal Server Error
501	Not Implemented
502	Bad Gateway
503	Service Unavailable
504	Gateway Timeout

Error Codes

See **Error Codes**.

6 User Group Management APIs

NOTE

- All APIs described in this section are provided by Identity and Access Management (IAM). You can also use the SDKs of IAM to call these APIs.
- For details about the endpoints required for API calling and SDK usage, see **Regions and Endpoints** of IAM. For details about error messages, see **IAM Error Codes**.

- To query user groups associated with an enterprise project, see **Querying User Groups Associated with an Enterprise Project**.
- To query permissions of a user group associated with an enterprise project, see **Querying the Permissions of a User Group Associated with an Enterprise Project**.
- To grant permissions to a user group associated with an enterprise project, see **Granting Permissions to a User Group Associated with an Enterprise Project**.
- To remove permissions of a user group associated with an enterprise project, see **Removing the Permissions of a User Group Associated with an Enterprise Project**.
- To query enterprise projects associated with a user group, see **Querying the Enterprise Projects Associated with a User Group**.
- To query enterprise projects associated with an IAM user, see **Querying the Enterprise Projects Associated with an IAM User**.

7 Permissions Policies and Supported Actions

7.1 Introduction

This chapter describes fine-grained permissions management for your enterprise projects. If your HUAWEI CLOUD account does not need individual IAM users, you can skip this chapter.

A policy is a set of permissions defined in JSON format. By default, new IAM users do not have permissions assigned. You need to add a user to one or more groups, and attach permissions policies or roles to these groups. Users inherit permissions from the groups to which they are added and can perform specified operations on cloud services based on the permissions. For details about the syntax structure and examples of policies, see **Enterprise Project Permissions**.

There are fine-grained policies and role-based access control (RBAC) policies. An RBAC policy consists of permissions for an entire service. Users in a group with such a policy assigned are granted all of the permissions required for that service. A fine-grained policy consists of API-based permissions for operations on specific resource types. Fine-grained policies, as the name suggests, allow for more fine-grained control than RBAC policies.

NOTE

Policy-based authorization is useful if you want to allow or deny the access to an API.

An account has all the permissions required to call all APIs, but IAM users must be assigned the required permissions. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API successfully. For example, if an IAM user wants to query ECSs using an API, the user must have been granted permissions that allow the **ecs:servers:list** action.

Supported Actions

Operations supported by fine-grained 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.
- Related actions: Actions on which a specific action depends to take effect. When assigning permissions for the action to a user, you also need to assign permissions for the related actions.
- IAM or enterprise projects: Type of projects for which an action will take effect. Policies that contain actions for both IAM and enterprise projects can be used and take effect for both IAM and Enterprise Management. Policies that only contain actions for IAM projects can be used and only take effect for IAM. For details about the differences between IAM and enterprise projects, see **Differences Between IAM and Enterprise Management**.

  NOTE

  The check mark (√) and cross symbol (x) indicate that an action takes effect or does not take effect for the corresponding type of projects.

7.2 Enterprise Project Management API Permissions

Table 7-1 Supported Actions

Permission	API	Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Querying enterprise projects	GET /v1.0/enterprise-projects	eps:enterpriseProjects:list	√	√
Creating an enterprise project	POST /v1.0/enterprise-projects	eps:enterpriseProjects:create	√	√

Permission	API	Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Querying enterprise project details	GET /v1.0/enterprise-projects/{enterprise_project_id}	eps:enterpriseProjects:get	√	√
Modifying an enterprise project	PUT /v1.0/enterprise-projects/{enterprise_project_id}	eps:enterpriseProjects:update	√	√
Enabling or disabling an enterprise project	POST /v1.0/enterprise-projects/{enterprise_project_id}/action	• Enable: eps:enterpriseProjects:enable • Disable: eps:enterpriseProjects:disable	√	√
Searching for resources	POST /v1.0/enterprise-projects/{enterprise_project_id}/resources/filter	eps:resources:list	√	√

Permission	API	Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Adding resources to or removing resources from an enterprise project	POST /v1.0/enterprise-projects/{enterprise_project_id}/resources-migrate	• Add: eps:resources:add • Remove: eps:resources:remove	√ √	√ √

A Appendix

A.1 Resource Types Supported by EPS

To see services and resource types supported by EPS, refer to **querying supported services**. The **provider** field indicates the cloud service name, and **resource_types** field indicates the resource type name.

A.2 Status Code

- 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	Normal return

- 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.
402 Payment Required	This status code is reserved for future use.
403 Forbidden	You are forbidden to access the requested page.

Returned Value	Description
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.
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.
410 Gone	The requested resource is no longer available. The requested resource has been deleted permanently.
412 Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
429 TooManyRequests	The client has sent more requests than the rate limit allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, the client should repeat requests after the time specified in the **Retry-After** header of the response expires.
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.

A.3 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 **API Gateway Error Codes**.

Status Code	Error Codes	Error Message	Description	Solution
400	EPS.0002	Bad request.	Invalid request data.	Check request parameters.
400	EPS.0007	Invalid enterprise project name.	Invalid enterprise project name.	Check the enterprise project name.
400	EPS.0008	Invalid enterprise project description.	Invalid enterprise project description.	Check the enterprise project description.
400	EPS.0009	The number of enterprise project exceeds the upper limit.	Too many enterprise projects.	Too many enterprise projects.
400	EPS.0011	Invalid domain ID.	Invalid domain ID.	Check the domain ID.
400	EPS.0012	The default enterprise project cannot be modified.	The default enterprise project cannot be modified.	The default enterprise project cannot be modified.
400	EPS.0013	Invalid action.	Invalid operation type.	Check the operation type.
400	EPS.0014	The disabled enterprise project cannot be modified.	Disabled enterprise projects cannot be modified.	Disabled enterprise projects cannot be modified.
400	EPS.0015	The default enterprise project does not support the operation.	Unsupported operation type.	Unsupported operation type.
400	EPS.0017	Invalid limit.	Invalid parameter.	Check the parameter.

Status Code	Error Codes	Error Message	Description	Solution
400	EPS.0018	Invalid offset.	Invalid parameter.	Check the parameter.
400	EPS.0020	Empty project list.	No enterprise projects specified.	No enterprise projects specified.
400	EPS.0021	Duplicated elements in the project list.	Duplicate project IDs.	Duplicate project IDs.
400	EPS.0022	Invalid project ID.	Invalid project ID.	Check the project ID.
400	EPS.0023	Empty resource type list.	No resource types specified.	Check the resource type list.
400	EPS.0024	Duplicated elements in the resource type list.	Duplicate resource types.	Check the resource type.
400	EPS.0025	Invalid element in the resource type list.	Invalid resource type.	Check the resource type.
400	EPS.0026	Invalid element in the project list.	Invalid project ID.	Check the project ID.
400	EPS.0027	Invalid element in the matches list.	Invalid project ID.	Check the project ID.
400	EPS.0028	Duplicated keys in the matches list.	Invalid parameter.	Check the request parameter.
400	EPS.0029	Invalid key in the matches list.	Invalid parameter.	Check the request parameter.
400	EPS.0030	Invalid value in the matches list.	Invalid parameter.	Check the request parameter.
400	EPS.0031	Invalid resource type.	Invalid resource type.	Check the resource type.

Status Code	Error Codes	Error Message	Description	Solution
400	EPS.0032	Invalid resource ID.	Invalid resource ID.	Check the resource ID.
400	EPS.0033	unsupported project or resource type.	Unsupported resource type or project.	Check the resource type or project.
400	EPS.0034	The disabled enterprise project cannot have the resources added.	Resources cannot be added to disabled enterprise projects.	Resources cannot be added to disabled enterprise projects.
400	EPS.0035	Invalid query param of with supported region or resource type.	Invalid parameter.	Check the request parameter.
400	EPS.0036	Failed to stop this enterprise project because you have incomplete orders.	Enterprise projects with pending orders cannot be disabled.	Enterprise projects with pending orders cannot be disabled.
400	EPS.0037	Incorrect enterprise project status.	Incorrect enterprise project status.	Contact service support personnel.
400	EPS.0038	Operation failed. No project ID is allowed in Global service resource types.	Invalid parameter.	Check the request parameter.
400	EPS.0040	Request remoteAddr is not match.	Invalid request address.	Check the request address.
400	EPS.0042	The request body length is too long. The maximum length allowed is 200 KB.	The request body cannot exceed 200 KB.	The request body cannot exceed 200 KB.

Status Code	Error Codes	Error Message	Description	Solution
400	EPS.0044	Invalid enterprise project id.	Invalid enterprise project ID.	Check the enterprise project ID.
400	EPS.0049	Invalid json.	Incorrect JSON format.	Contact service support personnel.
401	EPS.0003	Unauthorized user.	Unauthorized request.	Check the authentication token.
403	EPS.0004	Permission error.	Insufficient permissions.	Check your permissions.
403	EPS.0006	The request is too much, try again later.	Too many requests.	Try again later.
403	EPS.0039	You do not have permissions to perform this operation. The required permission is:	Insufficient permissions.	Check your permissions.
404	EPS.0005	Requested resources not found.	The resource does not exist.	Contact the service support personnel to check whether the API has been registered.
404	EPS.0069	The enterprise project is not exist.	Enterprise project does not exist.	Check the enterprise project ID.
409	EPS.0010	The enterprise project name already exists.	The enterprise project already exists.	Check the enterprise project name.
409	EPS.0016	Failed to disable the enterprise project because it contains AS groups.	The enterprise project cannot be disabled because it contains AS resources.	Remove the AS resources from the enterprise project and try again.
409	EPS.0041	Conflict.	Internal conflict.	Try again later.

Status Code	Error Codes	Error Message	Description	Solution
409	EPS.0043	Name already exists.	The name already exists.	Check the name.
500	EPS.0000	The system is busy, please try again later.	System busy. Try again later.	Contact service support personnel.
500	EPS.0001	System error.	System error.	Contact service support personnel.
500	EPS.0019	Query timed out.	Query timed out.	Try again later.
500	EPS.0045	Method args exist null.	One or more parameters are null.	Check parameters.
500	EPS.0046	Method return value is null.	The return value of Method is null.	Contact service support personnel.
500	EPS.0047	Invalid namespace.	Invalid namespace.	Contact service support personnel.
500	EPS.0048	Unexpected datasource error.	An unexpected database occurred.	Contact service support personnel.

A.4 Obtaining a Project ID

Scenarios

A project ID is required for some URLs when an API is called. Therefore, you need to obtain a project ID in advance. Two methods are available:

- **Obtain the Project ID by Calling an API**
- **Obtain a Project ID from the Console**

Obtain the Project ID by Calling an API

You can obtain a project ID by calling the API used to **query projects based on specified criteria**.

The API is **GET https://{Endpoint}/v3/projects**. The {Endpoint} can be obtained from **Regions and Endpoints** For details about API authentication, see Authentication.

The following is an example response. The value of **id** is the project ID.

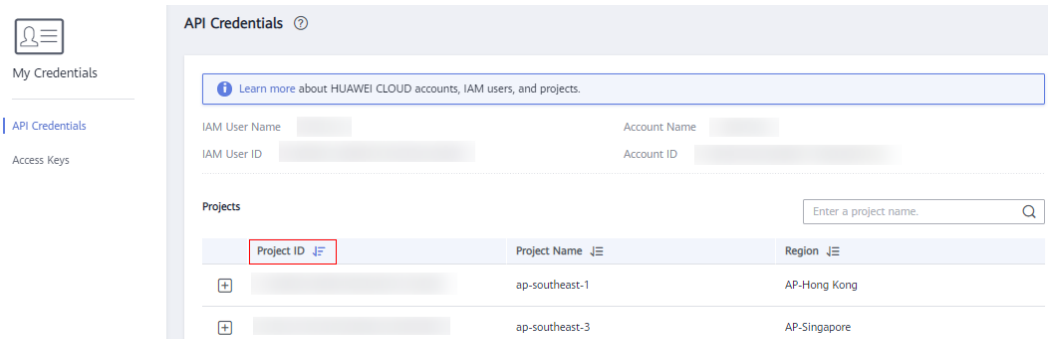
```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
            "name": "project_name",
            "description": "",
            "links": {
                "next": null,
                "previous": null,
                "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
            },
            "id": "a4a5d4098fb4474fa22cd05f897d6b99",
            "enabled": true
        }
    ],
    "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects"
    }
}
```

Obtain a Project ID from the Console

To obtain a project ID from the console, perform the following operations:

1. Log in to the management console.
2. Click the username and select **My Credentials** from the drop-down list.
   On the **API Credentials** page, view the project ID in the project list.

Figure A-1 Viewing the project ID



A.5 Obtaining the Domain-Level Token

```
POST https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json

{
    "auth": {
        "identity": {
            "methods": [
```



```
            "password"
         ],
         "password": {
            "user": {
               "name": "username",
               "password": "********",
               "domain": {
                  "name": "domainname"
               }
            }
         }
      },
      "scope": {
         "domain": {
            "id": "xxxxxxxxxxxxxxxxxx"
         }
      }
   }
}
```

A.6 IAM 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**.

For details about IAM error codes, see **IAM Error Codes**.

B Change History

Released On	Description
2022-12-30	This issue is the fourth official release, which incorporates the following change: Added the API for querying services supported by enterprise projects.
2021-01-06	This issue is the third official release, which incorporates the following change: Added error codes EPS.0000, EPS.0011, EPS.0035, EPS.0038, EPS.0040, EPS.0041, EPS.0042, EPS.0045, EPS.0046, EPS.0047, EPS.0048 and EPS.0049.
2020-11-30	This issue is the second official release, which incorporates the following changes: • Added section **Querying User Groups Associated with an Enterprise Project (Recommended)**. • Added section **Querying the Permissions of a User Group Associated with an Enterprise Project (Recommended)**. • Added section **Granting Permissions to a User Group Associated with an Enterprise Project (Recommended)**. • Added section **Removing the Permissions of a User Group Associated with an Enterprise Project (Recommended)**. • Added section **Querying the Enterprise Projects Associated with a User Group**. • Added section **Querying the Enterprise Projects Associated with an IAM User**.
2020-09-30	This issue is the first official release.

