

Cloud Connect

API Reference

Issue	01
Date	2025-07-29



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1 Before You Start

Welcome to *Cloud Connect API Reference*. Cloud Connect allows you to quickly build fast, stable networks to connect VPCs across regions and connect VPCs to on-premises data centers. With Cloud Connect, you can build a globally connected cloud network with enterprise-class scalability and communications capabilities.

This document describes how to use application programming interfaces (APIs) to perform operations on Cloud Connect resources, such as creating, querying, modifying, or deleting cloud connections. For details about all supported operations, see [API Overview](#).

If you plan to access Cloud Connect by calling an API, ensure that you are familiar with the product concepts. For details, see "Service Overview" in the *Cloud Connect User Guide*.

API Calling

Cloud Connect supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS.

For details about API calling, see [Calling APIs](#).

Endpoints

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

You need to select an endpoint based on your service requirements.

Constraints

- The number of Cloud Connect resources that you can create is determined by your quota. To view or increase the quotas, see "Notes and Constraints" in the *Cloud Connect User Guide*.
- For more constraints, see API description.

Concepts

- Account

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

- 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. 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.

- Enterprise project

Enterprise projects group and manage resources across regions. Resources in different enterprise projects are logically isolated.

For details about enterprise projects and about how to obtain enterprise project IDs, see [Enterprise Management User Guide](#).

2 API Overview

Cloud Connect provides Huawei-developed REST APIs.

Cloud Connect APIs allow you to use all the functions.

These APIs allow you to perform operations on three types of Cloud Connect resources: central networks, central network attachments, and central network connections.

[Table 2-1](#) describes the APIs provided by Cloud Connect.

Table 2-1 Cloud Connect APIs

Type	Description
Central network APIs	APIs for creating, querying, updating, and deleting a central network, listing the central networks, creating, applying, and deleting a policy, and querying policy changes
Central network attachment APIs	APIs for creating, querying, updating, and removing an attachment, and listing all attachments
Central network connection APIs	APIs for updating a connection and listing the connections

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 [creating an IAM User](#) as an example to demonstrate how to call an API.

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 Dublin is iam.myhuaweicloud.eu .
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 .
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of <i>Parameter name=Parameter value</i> . For example, ?limit=10 indicates that a maximum of 10 data records will be displayed.

IAM is a global service. You can create an IAM user using the endpoint of IAM in any region. For example, to create an IAM user in the **EU-Dublin** region, obtain the endpoint of IAM (**iam.myhuaweicloud.eu**) for this region and the **resource-path** (**/v3.0/OS-USER/users**) in the URI of the API for **creating an IAM user**. Then construct the URI as follows:

```
https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
```

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.
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 for **creating an IAM user**, the request method is **POST**. An example request is as follows:

```
POST https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
```

Request Header

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

Common request header fields are as follows.

Table 3-3 Common request header fields

Parameter	Description	Mandatory	Example Value
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 <i>Hostname:Port number</i> . 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
Content-Type	Specifies the type (or format) of the message body. The default value application/json is recommended. Other values of this field will be provided for specific APIs if any.	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 Dedicated Cloud (DeC) scenario or multi-project scenario.	e9993fc787d94b6c886cbaa340f9c0f4

Parameter	Description	Mandatory	Example Value
X-Auth-Token	Specifies the user token. It is a response to the API for obtaining a user token (This is the only API that does not require authentication). After the request is processed, the value of X-Subject-Token in the response header is the token value.	No This field is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZlhvc NAQcCo...ggg1B BIINPXsidG9rZ

 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.

For more details, see "Authentication Using AK/SK" in [Authentication](#).

The following shows an example request of the API for [creating an IAM user](#) when AK/SK authentication is used:

```
POST https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

(Optional) Request Body

This part is optional. A request body is generally sent in a structured format (for example, JSON or XML), which is specified by **Content-Type** in the request header. It is used to transfer content other than the request header. If the request body contains full-width characters, these characters must be coded in UTF-8.

The request body varies depending on APIs. Certain APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

The following shows an example request (a request body included) of the API for [creating an IAM user](#). You can learn about request parameters and related description from this example. The bold parameters need to be replaced for a real request.

- **accountid**: account ID of an IAM user
- **username**: name of an IAM user
- **email**: email of an IAM user
- **password**: login password of an IAM user

```
POST https://iam.myhuaweicloud.eu/v3.0/OS-USER/users
Content-Type: application/json
```

```
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****

{
  "user": {
    "domain_id": "accountid",
    "name": "username",
    "password": "*****",
    "email": "email",
    "description": "IAM User Description"
  }
}
```

If all data required for the API request is available, you can send the request to call the API through [curl](#), [Postman](#), or coding.

3.2 Authentication

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

- 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: Requests are authenticated using tokens.

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.
- The AK/SK can either be permanent or temporary. If it is temporary, the **X-Security-Token** field must be included in the request header. The value is the security token of the temporary AK/SK.

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.

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.

IMS is a project-level service. When you call the API, set **auth.scope** in the request body to **project**.

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username", // IAM user name
          "password": SADMIN_PASS, //IAM user password. You are advised to store it in ciphertext in
the configuration file or an environment variable and decrypt it when needed to ensure security.
          "domain": {
            "name": "domainname" // Name of the account that the IAM user belongs to
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxx" // 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 **ABCDEFGH....**, **X-Auth-Token: ABCDEFGH....** can be added to a request as follows:

```
GET https://iam.myhuaweicloud.eu/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFGH....
```

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 Codes](#).

For example, if status code **201** is returned for calling the API used to [create an IAM user](#), the request is successful.

Response Header

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

Figure 3-1 shows the response header fields for the API used to [create an IAM user](#). The **X-Subject-Token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

NOTE

For security purposes, you are advised to set the token in ciphertext in configuration files or environment variables and decrypt it when using it.

Figure 3-1 Header fields of the response to the request for creating an IAM user

```
"X-Frame-Options": "SAMEORIGIN",
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fceac8a",
"Transfer-Encoding": "chunked",
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",
"Server": "api-gateway",
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",
"X-Content-Type-Options": "nosniff",
"Connection": "keep-alive",
"X-Download-Options": "noopen",
"X-XSS-Protection": "1; mode=block;",
"X-IAM-Trace-Id": "token_ null_af2953f2bcc67a42325a69a19e6c32a2",
"Date": "Tue, 21 May 2024 09:03:40 GMT",
"Content-Type": "application/json; charset=utf8"
```

(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 shows part of the response body for the API used to [create an IAM user](#).

```
{
  "user": {
    "id": "c131886aec...",
    "name": "IAMUser",
    "description": "IAM User Description",
    "areacode": "",
    "phone": "",
    "email": "***@***.com",
    "status": null,
    "enabled": true,
    "pwd_status": false,
    "access_mode": "default",
    "is_domain_owner": false,
    "xuser_id": "",
    "xuser_type": "",
    "password_expires_at": null,
    "create_time": "2024-05-21T09:03:41.000000",
    "domain_id": "d78cbac1.....",
    "xdomain_id": "30086000.....",
    "xdomain_type": "",
    "default_project_id": null
  }
}
```

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 request message format is invalid.",
  "error_code": "IMG.0001"
}
```

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

4 API

4.1 Central Networks

4.1.1 Creating a Central Network

Function

This API is used to create a central network.

URI

POST /v3/{domain_id}/gcn/central-networks

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-3 Request body parameters

Parameter	Mandatory	Type	Description
central_network	Yes	CreateCentralNetwork object	Central network.

Table 4-4 CreateCentralNetwork

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.
tags	No	Array of Tag objects	Resource tags.
enterprise_project_id	No	String	ID of the enterprise project that the resource belongs to.
policy_document	No	CentralNetworkPolicyDocument object	Central network policy document.

Table 4-5 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	No	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-6 CentralNetworkPolicyDocument

Parameter	Mandatory	Type	Description
default_plane	Yes	String	Name of the default central network plane.

Parameter	Mandatory	Type	Description
planes	Yes	Array of CentralNetworkPlaneDocument objects	List of the central network planes.
er_instances	No	Array of AssociateErInstanceDocument objects	List of the enterprise routers on a central network.

Table 4-7 CentralNetworkPlaneDocument

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name.
associate_er_tables	No	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	No	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-8 AssociateErTableDocument

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
region_id	Yes	String	Region ID.
enterprise_router_id	Yes	String	Enterprise router ID.
enterprise_router_table_id	Yes	String	ID of the enterprise router route table.

Table 4-9 ExcludeErConnectionDocument

Parameter	Mandatory	Type	Description
[items]	No	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-10 AssociateErInstanceDocument

Parameter	Mandatory	Type	Description
enterprise_router_id	Yes	String	Enterprise router ID.
project_id	Yes	String	Project ID.
region_id	Yes	String	Region ID.

Response Parameters

Status code: 202

Table 4-11 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network	CentralNetwork object	Central network.

Table 4-12 CentralNetwork

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.

Parameter	Type	Description
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network status. • AVAILABLE: The central network is available. • UPDATING: The central network is being updated. • FAILED: The operation on the central network failed. • CREATING: The central network is being created. • DELETING: The central network is being deleted. • DELETED: The central network is deleted. • RESTORING: The central network is being restored.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
tags	Array of Tag objects	Resource tags.
default_plane_id	String	ID of the default central network plane.
planes	Array of CentralNetworkPlane objects	List of central network planes.
er_instances	Array of CentralNetworkEnterpriseRouterInstance objects	List of enterprise routers on a central network.
connections	Array of CentralNetworkEnterpriseRouterConnectionInfo objects	List of the enterprise router attachments on a central network.

Table 4-13 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-14 CentralNetworkPlane

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
associate_er_tables	Array of AssociateErTable Document objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-15 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-16 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-17 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Table 4-18 CentralNetworkErInstance

Parameter	Type	Description
id	String	Instance ID.
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.
asn	Long	ASN of the network instance when BGP is used for routing.
site_code	String	Site code.

Table 4-19 CentralNetworkConnectionInfo

Parameter	Type	Description
id	String	Instance ID.
plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.

Parameter	Type	Description
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Table 4-20 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Creating a central network

```
POST /v3/{domain_id}/gcn/central-networks
```

```
{
  "central_network" : {
    "name" : "name"
  }
}
```

Example Responses

Status code: 202

The central network has been created.

```
{
  "request_id" : "e9837622a6d4f31e4417b5432f42f4fe",
  "central_network" : {
    "id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
    "name" : "name",
    "created_at" : "2023-10-09T06:22:40.856Z",
    "updated_at" : "2023-10-09T06:22:40.856Z",
    "domain_id" : "XXX",
    "state" : "CREATING",
    "enterprise_project_id" : "0"
  }
}
```

Status Codes

Status Code	Description
202	The central network has been created.

Error Codes

See [Error Codes](#).

4.1.2 Querying the Central Network List

Function

This API is used to query the central network list.

Parameters **marker** and **limit** are used for pagination query. The default value of **limit** is **0**. If **marker** is not specified, the first data record is returned.

URI

GET /v3/{domain_id}/gcn/central-networks

Table 4-21 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-22 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.

Parameter	Mandatory	Type	Description
sort_key	No	String	Field for sorting.
sort_dir	No	Object	Whether the resources are sorted in ascending or descending order. asc indicates the ascending order and desc indicates the descending order.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
name	No	Array of strings	Resource name. Multiple names can be queried.
state	No	Array of arrays	Central network status. Multiple statuses can be queried.
enterprise_project_id	No	Array of strings	Enterprise project IDs.
enterprise_router_id	No	Array of arrays	Enterprise router IDs.
attachment_instance_id	No	Array of arrays	Attachment ID.
global_connection_bandwidth_id	No	Array of arrays	Bandwidth package IDs.
connection_id	No	Array of arrays	Connection ID.

Request Parameters

Table 4-23 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-24 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
central_networks	Array of CentralNetwork objects	Central network list.

Table 4-25 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-26 CentralNetwork

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network status. • AVAILABLE: The central network is available. • UPDATING: The central network is being updated. • FAILED: The operation on the central network failed. • CREATING: The central network is being created. • DELETING: The central network is being deleted. • DELETED: The central network is deleted. • RESTORING: The central network is being restored.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
tags	Array of Tag objects	Resource tags.
default_plane_id	String	ID of the default central network plane.
planes	Array of CentralNetworkPlane objects	List of central network planes.
er_instances	Array of CentralNetworkEnterpriseRouterInstance objects	List of enterprise routers on a central network.
connections	Array of CentralNetworkConnectionInfo objects	List of the enterprise router attachments on a central network.

Table 4-27 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).

Parameter	Type	Description
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-28 CentralNetworkPlane

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
associate_er_tables	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-29 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-30 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-31 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Table 4-32 CentralNetworkErInstance

Parameter	Type	Description
id	String	Instance ID.
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.
asn	Long	ASN of the network instance when BGP is used for routing.
site_code	String	Site code.

Table 4-33 CentralNetworkConnectionInfo

Parameter	Type	Description
id	String	Instance ID.
plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table

Parameter	Type	Description
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Table 4-34 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.

Parameter	Type	Description
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Querying the central network list

```
GET /v3/{domain_id}/gcn/central-networks
```

Example Responses

Status code: 200

The central network list has been queried.

```
{
  "request_id" : "0b6ba65808f9d7277f916d44845d271c",
  "page_info" : {
    "current_count" : 1
  },
  "central_networks" : [ {
    "id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
    "name" : "name",
    "created_at" : "2023-10-09T06:22:40.856Z",
    "updated_at" : "2023-10-09T06:22:40.856Z",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "enterprise_project_id" : "0"
  } ]
}
```

Status Codes

Status Code	Description
200	The central network list has been queried.

Error Codes

See [Error Codes](#).

4.1.3 Querying a Central Network

Function

This API is used to query the details about a central network.

URI

GET /v3/{domain_id}/gcn/central-networks/{central_network_id}

Table 4-35 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-36 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-37 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network	CentralNetwork object	Central network.

Table 4-38 CentralNetwork

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.

Parameter	Type	Description
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network status. • AVAILABLE: The central network is available. • UPDATING: The central network is being updated. • FAILED: The operation on the central network failed. • CREATING: The central network is being created. • DELETING: The central network is being deleted. • DELETED: The central network is deleted. • RESTORING: The central network is being restored.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
tags	Array of Tag objects	Resource tags.
default_plane_id	String	ID of the default central network plane.
planes	Array of CentralNetworkPlane objects	List of central network planes.
er_instances	Array of CentralNetworkErInstance objects	List of enterprise routers on a central network.
connections	Array of CentralNetworkConnectionInfo objects	List of the enterprise router attachments on a central network.

Table 4-39 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-40 CentralNetworkPlane

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
associate_er_tables	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-41 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-42 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-43 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Table 4-44 CentralNetworkErInstance

Parameter	Type	Description
id	String	Instance ID.
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.
asn	Long	ASN of the network instance when BGP is used for routing.
site_code	String	Site code.

Table 4-45 CentralNetworkConnectionInfo

Parameter	Type	Description
id	String	Instance ID.
plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.

Parameter	Type	Description
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Table 4-46 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Querying the details about a central network

```
GET /v3/{domain_id}/gcn/central-networks/{central_network_id}
```

Example Responses

Status code: 200

The details about a central network have been queried.

```
{
  "request_id" : "ebfebe2205832c9ed7c3d1131041cc0f",
  "central_network" : {
    "id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
    "name" : "name",
    "created_at" : "2023-10-09T06:22:40.856Z",
    "updated_at" : "2023-10-09T06:22:40.856Z",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "enterprise_project_id" : "0"
  }
}
```

Status Codes

Status Code	Description
200	The details about a central network have been queried.

Error Codes

See [Error Codes](#).

4.1.4 Updating a Central Network

Function

This API is used to update a central network.

URI

PUT /v3/{domain_id}/gcn/central-networks/{central_network_id}

Table 4-47 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-48 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-49 Request body parameters

Parameter	Mandatory	Type	Description
central_network	Yes	UpdateCentralNetwork object	Details of the central network to be updated.

Table 4-50 UpdateCentralNetwork

Parameter	Mandatory	Type	Description
name	No	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.

Parameter	Mandatory	Type	Description
tags	No	Array of Tag objects	Resource tags.

Table 4-51 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	No	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Response Parameters

Status code: 200

Table 4-52 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network	CentralNetwork object	Central network.

Table 4-53 CentralNetwork

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.

Parameter	Type	Description
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network status. • AVAILABLE: The central network is available. • UPDATING: The central network is being updated. • FAILED: The operation on the central network failed. • CREATING: The central network is being created. • DELETING: The central network is being deleted. • DELETED: The central network is deleted. • RESTORING: The central network is being restored.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
tags	Array of Tag objects	Resource tags.
default_plane_id	String	ID of the default central network plane.
planes	Array of CentralNetworkPlane objects	List of central network planes.
er_instances	Array of CentralNetworkEnterpriseRouterInstance objects	List of enterprise routers on a central network.
connections	Array of CentralNetworkEnterpriseRouterConnectionInfo objects	List of the enterprise router attachments on a central network.

Table 4-54 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-55 CentralNetworkPlane

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
associate_er_tables	Array of AssociateErTable Document objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-56 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-57 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-58 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Table 4-59 CentralNetworkErInstance

Parameter	Type	Description
id	String	Instance ID.
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.
asn	Long	ASN of the network instance when BGP is used for routing.
site_code	String	Site code.

Table 4-60 CentralNetworkConnectionInfo

Parameter	Type	Description
id	String	Instance ID.
plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.

Parameter	Type	Description
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Table 4-61 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Updating a central network

```
PUT /v3/{domain_id}/gcn/central-networks/{central_network_id}
{
  "central_network" : {
    "description" : "new description"
  }
}
```

Example Responses

Status code: 200

The central network has been updated.

```
{
  "request_id" : "b0f83900a5850b757cc59bf919d90947",
  "central_network" : {
    "id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
    "name" : "name",
    "description" : "new description",
    "created_at" : "2023-10-09T06:22:40.856Z",
    "updated_at" : "2023-10-09T06:27:55.75Z",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "enterprise_project_id" : "0"
  }
}
```

Status Codes

Status Code	Description
200	The central network has been updated.

Error Codes

See [Error Codes](#).

4.1.5 Deleting a Central Network

Function

This API is used to delete a central network. Remove the attachments before deleting the central network.

URI

DELETE /v3/{domain_id}/gcn/central-networks/{central_network_id}

Table 4-62 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-63 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 202

Table 4-64 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network	CentralNetwork object	Central network.

Table 4-65 CentralNetwork

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network status. • AVAILABLE: The central network is available. • UPDATING: The central network is being updated. • FAILED: The operation on the central network failed. • CREATING: The central network is being created. • DELETING: The central network is being deleted. • DELETED: The central network is deleted. • RESTORING: The central network is being restored.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
tags	Array of Tag objects	Resource tags.

Parameter	Type	Description
default_plane_id	String	ID of the default central network plane.
planes	Array of CentralNetworkPlane objects	List of central network planes.
er_instances	Array of CentralNetworkErInstance objects	List of enterprise routers on a central network.
connections	Array of CentralNetworkConnectionInfo objects	List of the enterprise router attachments on a central network.

Table 4-66 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-67 CentralNetworkPlane

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
associate_er_tables	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-68 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-69 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-70 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Table 4-71 CentralNetworkErInstance

Parameter	Type	Description
id	String	Instance ID.
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.
asn	Long	ASN of the network instance when BGP is used for routing.
site_code	String	Site code.

Table 4-72 CentralNetworkConnectionInfo

Parameter	Type	Description
id	String	Instance ID.
plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Table 4-73 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.

Parameter	Type	Description
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Deleting a central network

```
DELETE /v3/{domain_id}/gcn/central-networks/{central_network_id}
```

Example Responses

None

Status Codes

Status Code	Description
202	The central network has been deleted.

Error Codes

See [Error Codes](#).

4.1.6 Adding a Tag to a Central Network

Function

This API is used to add a tag to a central network.

URI

POST /v3/{domain_id}/gcn/central-networks/{central_network_id}/tag

Table 4-74 Path Parameters

Parameter	Mandatory	Type	Description
central_network_id	Yes	String	Central network ID.
domain_id	Yes	String	Account ID.

Request Parameters

Table 4-75 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-76 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of Tag objects	Included tags.

Table 4-77 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	No	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Response Parameters

Status code: 204

Table 4-78 Response header parameters

Parameter	Type	Description
x-request-id	String	-

Example Requests

Adding a tag to a central network

```
POST /v3/{domain_id}/gcn/central-networks/{central_network_id}/tag
```

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

Example Responses

None

Status Codes

Status Code	Description
204	The tag has been added to the central network.

Error Codes

See [Error Codes](#).

4.1.7 Deleting a Tag from a Central Network

Function

This API is used to delete a tag from a central network.

URI

POST /v3/{domain_id}/gcn/central-networks/{central_network_id}/untag

Table 4-79 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-80 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-81 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of Tag objects	Included tags.

Table 4-82 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	No	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Response Parameters

Status code: 204

Table 4-83 Response header parameters

Parameter	Type	Description
x-request-id	String	-

Example Requests

Deleting a tag from a central network

```
POST /v3/{domain_id}/gcn/central-networks/{central_network_id}/untag
```

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

Example Responses

None

Status Codes

Status Code	Description
204	The tag has been deleted from the central network.

Error Codes

See [Error Codes](#).

4.1.8 Querying the Tags Added to a Central Network

Function

This API is used to query the tags added to a central network.

URI

GET /v3/{domain_id}/gcn/central-networks/tags

Table 4-84 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Request Parameters

Table 4-85 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-86 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.

Parameter	Type	Description
tags	Array of MultivaluedTag objects	All tags of the central network.

Table 4-87 MultivaluedTag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
values	Array of strings	List of values with the same key.

Example Requests

Querying the tags added to a central network

```
GET /v3/{domain_id}/gcn/central-networks/tags
```

Example Responses

Status code: 200

The tags added to a central network have been queried.

```
{
  "request_id" : "2f68486e542a0bb23ab86a826f909ecf",
  "tags" : [ {
    "key" : "key1",
    "values" : [ "value1" ]
  }, {
    "key" : "key2",
    "values" : [ "value2" ]
  } ]
}
```

Status Codes

Status Code	Description
200	The tags added to a central network have been queried.

Error Codes

See [Error Codes](#).

4.1.9 Querying Central Networks by Tag

Function

This API is used to query central networks by tag.

URI

POST /v3/{domain_id}/gcn/central-networks/filter

Table 4-88 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-89 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.

Request Parameters

Table 4-90 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-91 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of MultivaluedTag objects	Included tags.

Table 4-92 MultivaluedTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
values	Yes	Array of strings	List of values with the same key.

Response Parameters

Status code: 200

Table 4-93 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
central_networks	Array of CentralNetwork objects	Central network list.

Table 4-94 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-95 CentralNetwork

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network status. • AVAILABLE: The central network is available. • UPDATING: The central network is being updated. • FAILED: The operation on the central network failed. • CREATING: The central network is being created. • DELETING: The central network is being deleted. • DELETED: The central network is deleted. • RESTORING: The central network is being restored.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.

Parameter	Type	Description
tags	Array of Tag objects	Resource tags.
default_plane_id	String	ID of the default central network plane.
planes	Array of CentralNetworkPlane objects	List of central network planes.
er_instances	Array of CentralNetworkEnterpriseRouterInstance objects	List of enterprise routers on a central network.
connections	Array of CentralNetworkConnectionInfo objects	List of the enterprise router attachments on a central network.

Table 4-96 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-97 CentralNetworkPlane

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
associate_er_tables	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-98 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-99 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-100 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Table 4-101 CentralNetworkErInstance

Parameter	Type	Description
id	String	Instance ID.
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Parameter	Type	Description
asn	Long	ASN of the network instance when BGP is used for routing.
site_code	String	Site code.

Table 4-102 CentralNetworkConnectionInfo

Parameter	Type	Description
id	String	Instance ID.
plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Table 4-103 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.

Parameter	Type	Description
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Querying central networks by tag

```
POST https://{cc_endpoint}/v3/{domain_id}/gcn/central-networks/filter
```

```
{
  "tags" : [ {
    "key" : "key",
    "values" : [ "value" ]
  } ]
}
```

Example Responses

Status code: 200

Central networks have been queried by tag.

```
{
  "request_id" : "0b6ba65808f9d7277f916d44845d271c",
  "page_info" : {
    "current_count" : 1
  },
  "central_networks" : [ {
    "id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
    "name" : "name",
    "created_at" : "2023-10-09T06:22:40.856Z",
    "updated_at" : "2023-10-09T06:22:40.856Z",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "enterprise_project_id" : "0"
  } ]
}
```

Status Codes

Status Code	Description
200	Central networks have been queried by tag.

Error Codes

See [Error Codes](#).

4.1.10 Adding a Central Network Policy

Function

This API is used to add a central network policy. A policy cannot be modified. If the policy cannot meet your requirements, you need to add a new policy.

URI

POST /v3/{domain_id}/gcn/central-network/{central_network_id}/policies

Table 4-104 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-105 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-106 Request body parameters

Parameter	Mandatory	Type	Description
central_network_policy_document	Yes	CentralNetworkPolicyDocument object	Central network policy document.

Table 4-107 CentralNetworkPolicyDocument

Parameter	Mandatory	Type	Description
default_plane	Yes	String	Name of the default central network plane.

Parameter	Mandatory	Type	Description
planes	Yes	Array of CentralNetworkPlaneDocument objects	List of the central network planes.
er_instances	No	Array of AssociateErInstanceDocument objects	List of the enterprise routers on a central network.

Table 4-108 CentralNetworkPlaneDocument

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name.
associate_er_tables	No	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	No	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-109 AssociateErTableDocument

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
region_id	Yes	String	Region ID.
enterprise_router_id	Yes	String	Enterprise router ID.
enterprise_router_table_id	Yes	String	ID of the enterprise router route table.

Table 4-110 ExcludeErConnectionDocument

Parameter	Mandatory	Type	Description
[items]	No	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-111 AssociateErInstanceDocument

Parameter	Mandatory	Type	Description
enterprise_router_id	Yes	String	Enterprise router ID.
project_id	Yes	String	Project ID.
region_id	Yes	String	Region ID.

Response Parameters

Status code: 201

Table 4-112 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_policy	CentralNetworkPolicy object	Details of the central network policy.

Table 4-113 CentralNetworkPolicy

Parameter	Type	Description
id	String	Instance ID.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network policy status. • AVAILABLE: The policy is available. • CANCELING: The policy is being cancelled. • APPLYING: The policy is being applied. • FAILED: The operation on the policy failed. • DELETED: The policy is deleted.
central_network_id	String	Central network ID.
document_template_version	String	Document template version. • 2022.08.30: August 30, 2022
is_applied	Boolean	Whether the policy is applied or not.
version	Integer	Version of the central network policy.
document	CentralNetworkPolicyDocument object	Central network policy document.

Table 4-114 CentralNetworkPolicyDocument

Parameter	Type	Description
default_plane	String	Name of the default central network plane.
planes	Array of CentralNetworkPlaneDocument objects	List of the central network planes.
er_instances	Array of AssociateErInstanceDocument objects	List of the enterprise routers on a central network.

Table 4-115 CentralNetworkPlaneDocument

Parameter	Type	Description
name	String	Instance name.

Parameter	Type	Description
associate_er_tables	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-116 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-117 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-118 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Example Requests

Adding a central network policy

```
POST /v3/{domain_id}/gcnc/central-network/{central_network_id}/policies

{
  "central_network_policy_document" : {
    "default_plane" : "default-plane",
    "planes" : [ {
      "name" : "default-plane"
    } ],
    "er_instances" : [ {
      "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
      "project_id" : "XXX",
      "region_id" : "region-abc"
    } ]
  }
}
```

Example Responses

Status code: 201

The central network policy has been added.

```
{
  "request_id" : "76bfd2b0d492d0e479fbbd3981869c12",
  "central_network_policy" : {
    "id" : "f03478aa-3975-4ca7-9fb2-b49428a01636",
    "created_at" : "2023-10-09T06:22:40.857Z",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "central_network_id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
    "document_template_version" : "2022.08.30",
    "is_applied" : true,
    "version" : 1,
    "document" : {
      "default_plane" : "default-plane",
      "planes" : [ {
        "name" : "default-plane",
        "associate_er_tables" : [ {
          "project_id" : "XXX",
          "region_id" : "region-abc",
          "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
          "enterprise_router_table_id" : "cc542128-5c2d-402a-8960-53bb2ed9484e"
        } ]
      } ],
      "er_instances" : [ {
        "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
        "project_id" : "XXX",
        "region_id" : "region-abc"
      } ]
    }
  }
}
```

Status Codes

Status Code	Description
201	The central network policy has been added.

Error Codes

See [Error Codes](#).

4.1.11 Querying the List of Central Network Policies

Function

This API is used to query the list of central network policies.

Parameters **marker** and **limit** are used for pagination query. The default value of **limit** is **0**. If **marker** is not specified, the first data record is returned.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/policies

Table 4-119 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Table 4-120 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
sort_key	No	String	Field for sorting.

Parameter	Mandatory	Type	Description
sort_dir	No	Object	Whether the resources are sorted in ascending or descending order. asc indicates the ascending order and desc indicates the descending order.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
state	No	Array of arrays	Policy status. Multiple statuses can be queried.
version	No	Array of arrays	Version. Multiple versions can be queried.
is_applied	No	Boolean	Whether the policy is applied or not.

Request Parameters

Table 4-121 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-122 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
central_network_policies	Array of CentralNetworkPolicy objects	List of the central network policies.

Table 4-123 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.

Parameter	Type	Description
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-124 CentralNetworkPolicy

Parameter	Type	Description
id	String	Instance ID.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network policy status. • AVAILABLE: The policy is available. • CANCELING: The policy is being cancelled. • APPLYING: The policy is being applied. • FAILED: The operation on the policy failed. • DELETED: The policy is deleted.
central_network_id	String	Central network ID.
document_template_version	String	Document template version. • 2022.08.30: August 30, 2022
is_applied	Boolean	Whether the policy is applied or not.
version	Integer	Version of the central network policy.
document	CentralNetworkPolicyDocument object	Central network policy document.

Table 4-125 CentralNetworkPolicyDocument

Parameter	Type	Description
default_plane	String	Name of the default central network plane.

Parameter	Type	Description
planes	Array of CentralNetworkPlaneDocument objects	List of the central network planes.
er_instances	Array of AssociateErInstanceDocument objects	List of the enterprise routers on a central network.

Table 4-126 CentralNetworkPlaneDocument

Parameter	Type	Description
name	String	Instance name.
associate_er_tables	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-127 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-128 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-129 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Example Requests

Querying the list of central network policies

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/policies
```

Example Responses

Status code: 200

The list of central network policies has been queried.

```
{
  "request_id" : "76bfd2b0d492d0e479fbdd3981869c12",
  "page_info" : {
    "current_count" : 1
  },
  "central_network_policies" : [ {
    "id" : "f03478aa-3975-4ca7-9fb2-b49428a01636",
    "created_at" : "2023-10-09T06:22:40.857Z",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "central_network_id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
    "document_template_version" : "2022.08.30",
    "is_applied" : true,
    "version" : 1,
    "document" : {
      "default_plane" : "default-plane",
      "planes" : [ {
        "name" : "default-plane",
        "associate_er_tables" : [ {
          "project_id" : "XXX",
          "region_id" : "region-abc",
          "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
          "enterprise_router_table_id" : "cc542128-5c2d-402a-8960-53bb2ed9484e"
        } ]
      } ],
      "er_instances" : [ {
        "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
```

```
    "project_id" : "XXX",  
    "region_id" : "region-abc"  
  }]  
}  
}]
```

Status Codes

Status Code	Description
200	The list of central network policies has been queried.

Error Codes

See [Error Codes](#).

4.1.12 Applying a Central Network Policy

Function

This API is used to apply a central network policy.

URI

POST /v3/{domain_id}/gcn/central-network/{central_network_id}/policies/
{policy_id}/apply

Table 4-130 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
policy_id	Yes	String	Central network policy ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-131 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 202

Table 4-132 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_policy	CentralNetworkPolicy object	Details of the central network policy.
central_network_policy_change_set	Array of CentralNetworkPolicyChange objects	List of central network policy changes.

Table 4-133 CentralNetworkPolicy

Parameter	Type	Description
id	String	Instance ID.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network policy status. • AVAILABLE: The policy is available. • CANCELING: The policy is being cancelled. • APPLYING: The policy is being applied. • FAILED: The operation on the policy failed. • DELETED: The policy is deleted.
central_network_id	String	Central network ID.
document_template_version	String	Document template version. • 2022.08.30: August 30, 2022
is_applied	Boolean	Whether the policy is applied or not.
version	Integer	Version of the central network policy.

Parameter	Type	Description
document	CentralNetworkPolicyDocument object	Central network policy document.

Table 4-134 CentralNetworkPolicyDocument

Parameter	Type	Description
default_plane	String	Name of the default central network plane.
planes	Array of CentralNetworkPlaneDocument objects	List of the central network planes.
er_instances	Array of AssociateErInstanceDocument objects	List of the enterprise routers on a central network.

Table 4-135 CentralNetworkPlaneDocument

Parameter	Type	Description
name	String	Instance name.
associate_er_tables	Array of AssociateErTableDocument objects	List of the enterprise routers on a central network.
exclude_er_connections	Array of ExcludeErConnectionDocument objects	Whether to exclude the connections to enterprise routers on the central network.

Table 4-136 AssociateErTableDocument

Parameter	Type	Description
project_id	String	Project ID.
region_id	String	Region ID.
enterprise_router_id	String	Enterprise router ID.

Parameter	Type	Description
enterprise_router_table_id	String	ID of the enterprise router route table.

Table 4-137 ExcludeErConnectionDocument

Parameter	Type	Description
[items]	Array of AssociateErInstanceDocument objects	Connections between enterprise routers managed by the central network plane.

Table 4-138 AssociateErInstanceDocument

Parameter	Type	Description
enterprise_router_id	String	Enterprise router ID.
project_id	String	Project ID.
region_id	String	Region ID.

Table 4-139 CentralNetworkElementChange

Parameter	Type	Description
operation_id	String	Operation on a central network. • CreateCentralNetworkPlane: Add a central network plane. • DeleteCentralNetworkPlane: Remove a central network plane. • UpdateCentralNetworkPlane: Update a central network plane. • CreateCentralNetworkErInstance: Add an enterprise router as an attachment on a central network. • DeleteCentralNetworkErInstance: Remove an enterprise router from a central network. • CreateCentralNetworkErConnection: Create a connection between enterprise routers on a central network. • DeleteCentralNetworkErConnection: Delete a connection between enterprise routers from a central network. • CreateCentralNetworkErTable: Add an enterprise router route table as an attachment on a central network. • DeleteCentralNetworkErTable: Remove an enterprise router route table from a central network. • SwitchCentralNetworkErTable: Change an enterprise router route table on a central network.

Example Requests

Applying a central network policy

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/policies
```

Example Responses

Status code: 202

The central network policy has been applied.

```
{
  "request_id" : "edb137a2c46c5bda0409833359bb649b",
  "central_network_policy" : {
```

```
"id" : "ff51f460-4bbe-4385-b2c4-efbe3318076f",
"created_at" : "2023-10-09T07:00:33.663Z",
"domain_id" : "XXX",
"state" : "APPLYING",
"central_network_id" : "e096c86f-817c-418c-945c-6b1d8860a15d",
"document_template_version" : "2022.08.30",
"is_applied" : false,
"version" : 2,
"document" : {
  "default_plane" : "default-plane",
  "planes" : [ {
    "name" : "default-plane",
    "associate_er_tables" : [ {
      "project_id" : "XXX",
      "region_id" : "region-abc",
      "enterprise_router_id" : "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
      "enterprise_router_table_id" : "c0d51f20-0313-40f7-a74e-9dcc5da21c0"
    } ]
  } ],
  "er_instances" : [ {
    "enterprise_router_id" : "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
    "project_id" : "XXX",
    "region_id" : "region-abc"
  } ]
},
"central_network_policy_change_set" : [ {
  "operation_id" : "UpdateCentralNetworkPlane",
  "original_central_network_plane" : {
    "name" : "default-plane",
    "is_default" : true,
    "associate_er_tables" : [ {
      "project_id" : "XXX",
      "region_id" : "region-abc",
      "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
      "enterprise_router_table_id" : "cc542128-5c2d-402a-8960-53bb2ed9484e"
    } ]
  },
  "newest_central_network_plane" : {
    "name" : "default-plane",
    "is_default" : true,
    "associate_er_tables" : [ {
      "project_id" : "XXX",
      "region_id" : "region-abc",
      "enterprise_router_id" : "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
      "enterprise_router_table_id" : "c0d51f20-0313-40f7-a74e-9dcc5da21c0"
    } ]
  }
}, {
  "operation_id" : "CreateCentralNetworkErInstance",
  "create_central_network_er_instance" : {
    "enterprise_router_id" : "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
    "project_id" : "XXX",
    "region_id" : "region-abc"
  }
}, {
  "operation_id" : "DeleteCentralNetworkErInstance",
  "delete_central_network_er_instance" : {
    "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
    "project_id" : "XXX",
    "region_id" : "region-abc"
  }
}, {
  "operation_id" : "CreateCentralNetworkErConnection",
  "central_network_plane_name" : "default-plane",
  "index" : 0,
  "create_central_network_er_connection" : [ {
    "project_id" : "XXX",
    "region_id" : "region-abc-1",
```

```
{
  "enterprise_router_id": "c9c9c756-6984-4866-bab7-5b55c81594bd",
  "enterprise_router_table_id": "58613052-f9d4-4fa4-a3f0-6d6873190826"
}, {
  "project_id": "8d01a037388442f6a2e435f4f30860a3",
  "region_id": "region-abc-2",
  "enterprise_router_id": "58fad9c1-b4bd-4622-84e4-a0fcb2423601",
  "enterprise_router_table_id": "a5347056-e29f-4192-9256-e151c61f854c"
}]
}, {
  "operation_id": "DeleteCentralNetworkErConnection",
  "central_network_plane_name": "default-plane",
  "index": 1,
  "delete_central_network_er_connection": [ {
    "project_id": "XXX",
    "region_id": "region-abc-1",
    "enterprise_router_id": "c9c9c756-6984-4866-bab7-5b55c81594bd",
    "enterprise_router_table_id": "58613052-f9d4-4fa4-a3f0-6d6873190826"
  }, {
    "project_id": "8d01a037388442f6a2e435f4f30860a3",
    "region_id": "region-abc-2",
    "enterprise_router_id": "58fad9c1-b4bd-4622-84e4-a0fcb2423601",
    "enterprise_router_table_id": "a5347056-e29f-4192-9256-e151c61f854c"
  }
], {
  "operation_id": "CreateCentralNetworkErTable",
  "central_network_plane_name": "default-plane",
  "create_central_network_er_table": {
    "project_id": "XXX",
    "region_id": "region-abc",
    "enterprise_router_id": "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
    "enterprise_router_table_id": "c0d51f20-0313-40f7-a74e-9dccb5da21c0"
  }
}, {
  "operation_id": "DeleteCentralNetworkErTable",
  "central_network_plane_name": "default-plane",
  "delete_central_network_er_table": {
    "project_id": "XXX",
    "region_id": "region-abc",
    "enterprise_router_id": "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
    "enterprise_router_table_id": "cc542128-5c2d-402a-8960-53bb2ed9484e"
  }
}, {
  "operation_id": "SwitchCentralNetworkErTable",
  "central_network_plane_name": "default-plane",
  "switch_central_network_er_table": {
    "project_id": "XXX",
    "region_id": "region-abc",
    "enterprise_router_id": "5cc75ed0-bd6c-3af4-663b-caba3315bb08",
    "original_enterprise_router_table_id": "b705f49e-df88-eaf3-3aeb-95d534138156",
    "new_enterprise_router_table_id": "b705f49e-df88-eaf3-3aeb-95d534138158"
  }
}
}]
}
```

Status Codes

Status Code	Description
202	The central network policy has been applied.

Error Codes

See [Error Codes](#).

4.1.13 Deleting a Central Network Policy

Function

This API is used to delete a central network policy. An applied policy cannot be deleted.

URI

DELETE /v3/{domain_id}/gcn/central-network/{central_network_id}/policies/{policy_id}

Table 4-140 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
policy_id	Yes	String	Central network policy ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-141 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 204

Table 4-142 Response header parameters

Parameter	Type	Description
x-request-id	String	-

Example Requests

Deleting a central network policy

```
DELETE /v3/{domain_id}/gcn/central-network/{central_network_id}/policies/{policy_id}
```

Example Responses

None

Status Codes

Status Code	Description
204	The central network policy has been deleted.

Error Codes

See [Error Codes](#).

4.1.14 Querying the Changes Between the Current Policy and an Applied Policy

Function

This API is used query the changes between the current policy and an applied policy.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/policies/{policy_id}/change-set

Table 4-143 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
policy_id	Yes	String	Central network policy ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-144 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-145 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
central_network_policy_change_set	Array of CentralNetworkElementChange objects	List of central network policy changes.

Table 4-146 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-147 CentralNetworkElementChange

Parameter	Type	Description
operation_id	String	Operation on a central network. • CreateCentralNetworkPlane: Add a central network plane. • DeleteCentralNetworkPlane: Remove a central network plane. • UpdateCentralNetworkPlane: Update a central network plane. • CreateCentralNetworkErInstance: Add an enterprise router as an attachment on a central network. • DeleteCentralNetworkErInstance: Remove an enterprise router from a central network. • CreateCentralNetworkErConnection: Create a connection between enterprise routers on a central network. • DeleteCentralNetworkErConnection: Delete a connection between enterprise routers from a central network. • CreateCentralNetworkErTable: Add an enterprise router route table as an attachment on a central network. • DeleteCentralNetworkErTable: Remove an enterprise router route table from a central network. • SwitchCentralNetworkErTable: Change an enterprise router route table on a central network.

Example Requests

Querying the changes between the current policy and an applied policy

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/policies/{policy_id}/change-set
```

Example Responses

Status code: 200

Changes between the current policy and applied policy have been queried.

```
{
  "request_id" : "a334adc3e2cba87855def6f3ab58b9db5",
  "page_info" : {
```

```
"current_count" : 5
},
"central_network_policy_change_set" : [ {
  "operation_id" : "UpdateCentralNetworkPlane",
  "original_central_network_plane" : {
    "name" : "default-plane",
    "is_default" : true,
    "associate_er_tables" : [ {
      "project_id" : "XXX",
      "region_id" : "region-abc",
      "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
      "enterprise_router_table_id" : "cc542128-5c2d-402a-8960-53bb2ed9484e"
    } ]
  }
},
"newest_central_network_plane" : {
  "name" : "default-plane",
  "is_default" : true,
  "associate_er_tables" : [ {
    "project_id" : "XXX",
    "region_id" : "region-abc",
    "enterprise_router_id" : "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
    "enterprise_router_table_id" : "c0d51f20-0313-40f7-a74e-9dcc5da21c0"
  } ]
}
}, {
  "operation_id" : "CreateCentralNetworkErInstance",
  "create_central_network_er_instance" : {
    "enterprise_router_id" : "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
    "project_id" : "XXX",
    "region_id" : "region-abc"
  }
}, {
  "operation_id" : "DeleteCentralNetworkErInstance",
  "delete_central_network_er_instance" : {
    "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
    "project_id" : "XXX",
    "region_id" : "region-abc"
  }
}, {
  "operation_id" : "CreateCentralNetworkErConnection",
  "central_network_plane_name" : "default-plane",
  "index" : 0,
  "create_central_network_er_connection" : [ {
    "project_id" : "XXX",
    "region_id" : "region-abc-1",
    "enterprise_router_id" : "c9c9c756-6984-4866-bab7-5b55c81594bd",
    "enterprise_router_table_id" : "58613052-f9d4-4fa4-a3f0-6d6873190826"
  } ], {
    "project_id" : "8d01a037388442f6a2e435f4f30860a3",
    "region_id" : "region-abc-2",
    "enterprise_router_id" : "58fad9c1-b4bd-4622-84e4-a0fcb2423601",
    "enterprise_router_table_id" : "a5347056-e29f-4192-9256-e151c61f854c"
  }
}, {
  "operation_id" : "DeleteCentralNetworkErConnection",
  "central_network_plane_name" : "default-plane",
  "index" : 1,
  "delete_central_network_er_connection" : [ {
    "project_id" : "XXX",
    "region_id" : "region-abc-1",
    "enterprise_router_id" : "c9c9c756-6984-4866-bab7-5b55c81594bd",
    "enterprise_router_table_id" : "58613052-f9d4-4fa4-a3f0-6d6873190826"
  } ], {
    "project_id" : "8d01a037388442f6a2e435f4f30860a3",
    "region_id" : "region-abc-2",
    "enterprise_router_id" : "58fad9c1-b4bd-4622-84e4-a0fcb2423601",
    "enterprise_router_table_id" : "a5347056-e29f-4192-9256-e151c61f854c"
  }
}
}, {
```



```
"operation_id" : "CreateCentralNetworkErTable",
"central_network_plane_name" : "default-plane",
"create_central_network_er_table" : {
  "project_id" : "XXX",
  "region_id" : "region-abc",
  "enterprise_router_id" : "c73b26b7-33f0-438d-b440-8e87dfe6fef9",
  "enterprise_router_table_id" : "c0d51f20-0313-40f7-a74e-9dccb5da21c0"
}, {
  "operation_id" : "DeleteCentralNetworkErTable",
  "central_network_plane_name" : "default-plane",
  "delete_central_network_er_table" : {
    "project_id" : "XXX",
    "region_id" : "region-abc",
    "enterprise_router_id" : "395b0884-aab4-4bf0-8cb8-7f2da26708dd",
    "enterprise_router_table_id" : "cc542128-5c2d-402a-8960-53bb2ed9484e"
  }
}, {
  "operation_id" : "SwitchCentralNetworkErTable",
  "central_network_plane_name" : "default-plane",
  "switch_central_network_er_table" : {
    "project_id" : "XXX",
    "region_id" : "region-abc",
    "enterprise_router_id" : "5cc75ed0-bd6c-3af4-663b-caba3315bb08",
    "original_enterprise_router_table_id" : "b705f49e-df88-eaf3-3aeb-95d534138156",
    "new_enterprise_router_table_id" : "b705f49e-df88-eaf3-3aeb-95d534138158"
  }
}
}]
}
```

Status Codes

Status Code	Description
200	Changes between the current policy and applied policy have been queried.

Error Codes

See [Error Codes](#).

4.2 Central Network Attachments

4.2.1 Adding a Global DC Gateway to a Central Network

Function

This API is used to add a global DC gateway to a central network as an attachment.

URI

POST /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments

Table 4-148 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-149 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-150 Request body parameters

Parameter	Mandatory	Type	Description
central_network_global_dc_gateway_attachment	Yes	CreateCentralNetworkGlobalDcGatewayAttachment object	Request body for adding a global DC gateway to a central network as an attachment.

Table 4-151 CreateCentralNetworkGdgwAttachment

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.
enterprise_router_id	Yes	String	Enterprise router ID.
global_dc_gateway_id	Yes	String	Global DC gateway ID.
global_dc_gateway_project_id	Yes	String	Project ID of the global DC gateway.
global_dc_gateway_region_id	Yes	String	Region ID of the global DC gateway.

Parameter	Mandatory	Type	Description
enterprise_router_project_id	Yes	String	Project ID of the enterprise router.
enterprise_router_region_id	Yes	String	Region ID of an enterprise router.
central_network_plane_id	No	String	ID of the central network plane.

Response Parameters

Status code: 202

Table 4-152 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_gdgw_attachment	CentralNetworkGdgwAttachment object	Details of the global DC gateway used as an attachment.

Table 4-153 CentralNetworkGdgwAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
is_frozen	Boolean	Whether the resource is frozen.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
global_dc_gateway_peer_link_id	String	Peer link ID of the global DC gateway.
global_dc_gateway_id	String	Global DC gateway ID.
global_dc_gateway_project_id	String	Project ID of the global DC gateway.
global_dc_gateway_region_id	String	Region ID of the global DC gateway.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
global_dc_gateway_site_code	String	Site code.

Example Requests

Adding a global DC gateway to a central network

```
POST /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments
```

```
{
  "central_network_gdgw_attachment" : {
    "name" : "name",
    "description" : "description",
    "enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id" : "32f7402e18154ce5861c9989df956394",
    "enterprise_router_region_id" : "region-abc",
    "global_dc_gateway_project_id" : "32f7402e18154ce5861c9989df956394",
    "global_dc_gateway_region_id" : "region-abc",
    "central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b"
  }
}
```

Example Responses

Status code: 202

The global DC gateway has been added as an attachment on the central network.

```
{
  "request_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "central_network_gdgw_attachment" : {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "created_at" : "2023-10-09T10:09:28.908Z",
    "updated_at" : "2023-10-09T10:09:28.908Z",
    "central_network_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_connection_bandwidth_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_type" : "BandwidthPackage",
    "bandwidth_size" : 20,
    "is_frozen" : false,
    "enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id" : "XXX",
    "enterprise_router_region_id" : "region-abc",
    "enterprise_router_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_peer_link_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_project_id" : "XXX",
    "global_dc_gateway_region_id" : "region-abc",
    "enterprise_router_site_code" : "site-abc",
    "global_dc_gateway_site_code" : "site-abc"
  }
}
```

Status Codes

Status Code	Description
202	The global DC gateway has been added as an attachment on the central network.

Error Codes

See [Error Codes](#).

4.2.2 Querying the List of Global DC Gateways on a Central Network

Function

This API is used to query the list of global DC gateways on a central network.

Parameters **marker** and **limit** are used for pagination query. The default value of **limit** is **0**. If **marker** is not specified, the first data record is returned.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments

Table 4-154 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Table 4-155 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
sort_key	No	String	Field for sorting.

Parameter	Mandatory	Type	Description
sort_dir	No	Object	Whether the resources are sorted in ascending or descending order. asc indicates the ascending order and desc indicates the descending order.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
name	No	Array of strings	Resource name. Multiple names can be queried.
state	No	Array of arrays	Central network connection status. Multiple statuses can be queried.
global_dc_gateway_id	No	Array of arrays	Global DC gateway IDs.

Request Parameters

Table 4-156 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-157 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
central_network_gdgw_attachments	Array of CentralNetworkGdgwAttachment objects	List of the global DC gateways on the central network.

Table 4-158 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-159 CentralNetworkGdgwAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Parameter	Type	Description
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
is_frozen	Boolean	Whether the resource is frozen.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
global_dc_gateway_peer_link_id	String	Peer link ID of the global DC gateway.
global_dc_gateway_id	String	Global DC gateway ID.
global_dc_gateway_project_id	String	Project ID of the global DC gateway.

Parameter	Type	Description
global_dc_gateway_region_id	String	Region ID of the global DC gateway.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
global_dc_gateway_site_code	String	Site code.

Example Requests

Querying the list of global DC gateways on a central network

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments
```

Example Responses

Status code: 200

The list of global DC gateways on the central network has been queried.

```
{
  "request_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "page_info": {
    "next_marker": "8EDF12u71N...",
    "previous_marker": "8EDF12u71N...",
    "current_count": 1
  },
  "central_network_gdgw_attachments": [ {
    "id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name": "name",
    "description": "description",
    "domain_id": "XXX",
    "state": "AVAILABLE",
    "created_at": "2023-10-09T10:11:11.222Z",
    "updated_at": "2023-10-09T10:11:11.222Z",
    "central_network_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_connection_bandwidth_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_type": "BandwidthPackage",
    "bandwidth_size": 20,
    "is_frozen": false,
    "enterprise_router_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id": "XXX",
    "enterprise_router_region_id": "region-abc",
    "enterprise_router_attachment_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_peer_link_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_project_id": "XXX",
    "global_dc_gateway_region_id": "region-abc",
    "enterprise_router_site_code": "site-abc",
    "global_dc_gateway_site_code": "site-abc"
  } ]
}
```

Status Codes

Status Code	Description
200	The list of global DC gateways on the central network has been queried.

Error Codes

See [Error Codes](#).

4.2.3 Querying a Global DC Gateway on a Central Network

Function

This API is used to query the details about a global DC gateway on the central network.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments/{gdgw_attachment_id}

Table 4-160 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.
gdgw_attachment_id	Yes	String	ID of the global DC gateway attachment on the central network.

Request Parameters

Table 4-161 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-162 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_gdgw_attachment	CentralNetworkGdgwAttachment object	Details of the global DC gateway used as an attachment.

Table 4-163 CentralNetworkGdgwAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.

Parameter	Type	Description
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
is_frozen	Boolean	Whether the resource is frozen.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
global_dc_gateway_peer_link_id	String	Peer link ID of the global DC gateway.
global_dc_gateway_id	String	Global DC gateway ID.
global_dc_gateway_project_id	String	Project ID of the global DC gateway.

Parameter	Type	Description
global_dc_gateway_region_id	String	Region ID of the global DC gateway.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
global_dc_gateway_site_code	String	Site code.

Example Requests

Querying the details about a global DC gateway on a central network

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments/{gdgw_attachment_id}
```

Example Responses

Status code: 200

The details about the global DC gateway on a central network have been queried.

```
{
  "request_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "central_network_gdgw_attachment": {
    "id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name": "name",
    "description": "description",
    "domain_id": "XXX",
    "state": "AVAILABLE",
    "created_at": "2023-10-09T10:12:28.127Z",
    "updated_at": "2023-10-09T10:12:28.127Z",
    "central_network_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_connection_bandwidth_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_type": "BandwidthPackage",
    "bandwidth_size": 20,
    "is_frozen": false,
    "enterprise_router_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id": "XXX",
    "enterprise_router_region_id": "region-abc",
    "enterprise_router_attachment_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_peer_link_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_project_id": "XXX",
    "global_dc_gateway_region_id": "region-abc",
    "enterprise_router_site_code": "site-abc",
    "global_dc_gateway_site_code": "site-abc"
  }
}
```

Status Codes

Status Code	Description
200	The details about the global DC gateway on a central network have been queried.

Error Codes

See [Error Codes](#).

4.2.4 Updating a Global DC Gateway on a Central Network

Function

This API is used to update a global DC gateway on a central network.

URI

PUT /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments/{gdgw_attachment_id}

Table 4-164 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.
gdgw_attachment_id	Yes	String	ID of the global DC gateway attachment on the central network.

Request Parameters

Table 4-165 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-166 Request body parameters

Parameter	Mandatory	Type	Description
central_network_gdgw_attachment	Yes	UpdateCentralNetworkGdgwAttachment object	Details of the global DC gateway on the central network to be updated.

Table 4-167 UpdateCentralNetworkGdgwAttachment

Parameter	Mandatory	Type	Description
name	No	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.

Response Parameters

Status code: 200

Table 4-168 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_gdgw_attachment	CentralNetworkGdgwAttachment object	Details of the global DC gateway used as an attachment.

Table 4-169 CentralNetworkGdgwAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
is_frozen	Boolean	Whether the resource is frozen.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
global_dc_gateway_peer_link_id	String	Peer link ID of the global DC gateway.
global_dc_gateway_id	String	Global DC gateway ID.
global_dc_gateway_project_id	String	Project ID of the global DC gateway.
global_dc_gateway_region_id	String	Region ID of the global DC gateway.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
global_dc_gateway_site_code	String	Site code.

Example Requests

Updating a global DC gateway on a central network

```
PUT /v3/{domain_id}/gcn/central-network/{central_network_id}/gdgw-attachments/{gdgw_attachment_id}
```

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

Example Responses

Status code: 200

The global DC gateway on the central network has been updated.

```
{
  "request_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "central_network_gdgw_attachment" : {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "created_at" : "2023-10-09T10:13:18.045Z",
    "updated_at" : "2023-10-09T10:13:18.045Z",
    "central_network_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_connection_bandwidth_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_type" : "BandwidthPackage",
    "bandwidth_size" : 20,
    "is_frozen" : false,
    "enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id" : "XXX",
    "enterprise_router_region_id" : "region-abc",
    "enterprise_router_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_peer_link_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_dc_gateway_project_id" : "XXX",
    "global_dc_gateway_region_id" : "region-abc",
    "enterprise_router_site_code" : "site-abc",
    "global_dc_gateway_site_code" : "site-abc"
  }
}
```

Status Codes

Status Code	Description
200	The global DC gateway on the central network has been updated.

Error Codes

See [Error Codes](#).

4.2.5 Adding a Route Table of an Enterprise Router as an Attachment on a Central Network

Function

This API is used to add a route table of an enterprise router as an attachment on a central network.

URI

POST /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments

Table 4-170 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Request Parameters

Table 4-171 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-172 Request body parameters

Parameter	Mandatory	Type	Description
central_network_er_route_table_attachment	Yes	CreateCentralNetworkErRouteTableAttachment object	Request body for adding an enterprise router to a central network as an attachment.

Table 4-173 CreateCentralNetworkErRouteTableAttachment

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.
enterprise_router_id	Yes	String	Enterprise router ID.
enterprise_router_project_id	Yes	String	Project ID of the enterprise router.
enterprise_router_region_id	Yes	String	Region ID of an enterprise router.

Parameter	Mandatory	Type	Description
central_network_plane_id	Yes	String	ID of the central network plane.
attachment_id	No	String	Attachment ID of the enterprise router or peer link ID of the global DC gateway.
enterprise_router_table_id	Yes	String	ID of the enterprise router route table.
attached_enter_router_table_project_id	Yes	String	Project ID of an enterprise router added to a central network.
attached_enter_router_table_region_id	Yes	String	Region ID of an enterprise router.
attached_enter_router_id	Yes	String	ID of an enterprise router added to a central network.
attached_enter_router_table_id	Yes	String	Route table ID of an enterprise router added to a central network.
hosted_cloud	Yes	String	• HWCloud: Huawei Cloud • Ireland: Ireland site

Response Parameters

Status code: 202

Table 4-174 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_enter_router_route_table_attachment	CentralNetworkErRouteTableAttachment object	Details of the enterprise router route table used as an attachment.

Table 4-175 CentralNetworkErRouteTableAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.

Parameter	Type	Description
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
is_frozen	Boolean	Whether the resource is frozen.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
enterprise_router_table_id	String	ID of the enterprise router route table.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
attached_er_table_project_id	String	Project ID of an enterprise router added to a central network.
attached_er_table_region_id	String	Region ID of an enterprise router.
attached_er_id	String	ID of an enterprise router added to a central network.
attached_er_table_id	String	Route table ID of an enterprise router added to a central network.
attached_er_attachment_id	String	Attachment ID of an enterprise router added to a central network.
attached_er_table_site_code	String	Site code of an enterprise router added to a central network.
hosted_cloud	String	• HWCloud: Huawei Cloud • Ireland: Ireland site

Parameter	Type	Description
approved_state	String	Approval status. • APPROVING: Approving • APPROVED: Approved • UNAPPROVED: Approval failed
reason	String	Reason for rejecting an enterprise router route table as an attachment.

Example Requests

Adding a route table of an enterprise router as an attachment on a central network

POST /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments

```
{
  "central_network_er_route_table_attachment" : {
    "name" : "name",
    "description" : "description",
    "enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id" : "32f7402e18154ce5861c9989df956394",
    "enterprise_router_region_id" : "region-abc",
    "enterprise_router_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "attached_er_table_project_id" : "32f7402e18154ce5861c9989df956394",
    "attached_er_table_region_id" : "region-abc",
    "attached_er_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "attached_er_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "hosted_cloud" : "HWCloud"
  }
}
```

Example Responses

Status code: 202

The route table has been added as an attachment on the central network.

```
{
  "request_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "central_network_er_route_table_attachment" : {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "created_at" : "2023-10-09T10:09:28.908Z",
    "updated_at" : "2023-10-09T10:09:28.908Z",
    "central_network_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_connection_bandwidth_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_type" : "BandwidthPackage",
    "bandwidth_size" : 20,
    "is_frozen" : false,
    "enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id" : "XXX",
    "enterprise_router_region_id" : "region-abc",
    "enterprise_router_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  }
}
```

```
"enterprise_router_site_code" : "site-abc",
"attached_er_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attached_er_table_region_id" : "region-abc",
"attached_er_table_project_id" : "XXX",
"attached_er_table_site_code" : "site-abc",
"attached_er_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attached_er_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"approved_state" : "APPROVING",
"hosted_cloud" : "HWCloud",
"reason" : "APPROVING"
}
```

Status Codes

Status Code	Description
202	The route table has been added as an attachment on the central network.

Error Codes

See [Error Codes](#).

4.2.6 Querying the List of Enterprise Router Route Tables on a Central Network

Function

This API is used to query the list of enterprise router route tables as attachments on a central network.

Parameters **marker** and **limit** are used for pagination query. The default value of **limit** is **0**. If **marker** is not specified, the first data record is returned.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments

Table 4-176 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Table 4-177 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
sort_key	No	String	Field for sorting.
sort_dir	No	Object	Whether the resources are sorted in ascending or descending order. asc indicates the ascending order and desc indicates the descending order.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
name	No	Array of strings	Resource name. Multiple names can be queried.
state	No	Array of arrays	Central network connection status. Multiple statuses can be queried.
attachment_instance_id	No	Array of arrays	Attachment ID.

Request Parameters

Table 4-178 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-179 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
central_network_err_route_table_attachments	Array of CentralNetworkErRouteTableAttachment objects	Response body for adding an enterprise router route table as an attachment.

Table 4-180 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-181 CentralNetworkErRouteTableAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
is_frozen	Boolean	Whether the resource is frozen.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
enterprise_router_table_id	String	ID of the enterprise router route table.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
attached_er_table_project_id	String	Project ID of an enterprise router added to a central network.
attached_er_table_region_id	String	Region ID of an enterprise router.
attached_er_id	String	ID of an enterprise router added to a central network.
attached_er_table_id	String	Route table ID of an enterprise router added to a central network.
attached_er_attachment_id	String	Attachment ID of an enterprise router added to a central network.
attached_er_table_site_code	String	Site code of an enterprise router added to a central network.
hosted_cloud	String	• HWCloud: Huawei Cloud • Ireland: Ireland site

Parameter	Type	Description
approved_state	String	Approval status. • APPROVING: Approving • APPROVED: Approved • UNAPPROVED: Approval failed
reason	String	Reason for rejecting an enterprise router route table as an attachment.

Example Requests

Querying the list of enterprise router route tables as attachments on a central network

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments
```

Example Responses

Status code: 200

The list of enterprise router route tables on the central network has been queried.

```
{
  "request_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "central_network_er_route_table_attachments": [ {
    "id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name": "name",
    "description": "description",
    "domain_id": "XXX",
    "state": "AVAILABLE",
    "created_at": "2023-10-09T10:09:28.908Z",
    "updated_at": "2023-10-09T10:09:28.908Z",
    "central_network_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_connection_bandwidth_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_type": "BandwidthPackage",
    "bandwidth_size": 20,
    "is_frozen": false,
    "enterprise_router_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id": "XXX",
    "enterprise_router_region_id": "region-abc",
    "enterprise_router_attachment_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_table_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_site_code": "site-abc",
    "attached_er_table_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "attached_er_table_region_id": "region-abc",
    "attached_er_table_project_id": "XXX",
    "attached_er_table_site_code": "site-abc",
    "attached_er_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "attached_er_attachment_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "approved_state": "APPROVING",
    "hosted_cloud": "HWCloud",
    "reason": "APPROVING"
  } ]
}
```

Status Codes

Status Code	Description
200	The list of enterprise router route tables on the central network has been queried.

Error Codes

See [Error Codes](#).

4.2.7 Querying an Enterprise Router Route Table on a Central Network

Function

This API is used to query the details about an enterprise router route table on a central network.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments/{er_route_table_attachment_id}

Table 4-182 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.
er_route_table_attachment_id	Yes	String	ID of the enterprise router route table attachment on the central network.

Request Parameters

Table 4-183 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-184 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_er_route_table_attachment	CentralNetworkErRouteTableAttachment object	Details of the enterprise router route table used as an attachment.

Table 4-185 CentralNetworkErRouteTableAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
is_frozen	Boolean	Whether the resource is frozen.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
enterprise_router_table_id	String	ID of the enterprise router route table.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
attached_er_table_project_id	String	Project ID of an enterprise router added to a central network.
attached_er_table_region_id	String	Region ID of an enterprise router.
attached_er_id	String	ID of an enterprise router added to a central network.
attached_er_table_id	String	Route table ID of an enterprise router added to a central network.
attached_er_attachment_id	String	Attachment ID of an enterprise router added to a central network.
attached_er_table_site_code	String	Site code of an enterprise router added to a central network.
hosted_cloud	String	• HWCloud: Huawei Cloud • Ireland: Ireland site

Parameter	Type	Description
approved_state	String	Approval status. • APPROVING: Approving • APPROVED: Approved • UNAPPROVED: Approval failed
reason	String	Reason for rejecting an enterprise router route table as an attachment.

Example Requests

Querying the details about an enterprise router route table on a central network

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments/  
{er_route_table_attachment_id}
```

Example Responses

Status code: 200

The details about the enterprise router route table on the central network have been queried.

```
{  
  "request_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
  "central_network_er_route_table_attachment" : {  
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "name" : "name",  
    "description" : "description",  
    "domain_id" : "XXX",  
    "state" : "AVAILABLE",  
    "created_at" : "2023-10-09T10:09:28.908Z",  
    "updated_at" : "2023-10-09T10:09:28.908Z",  
    "central_network_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "global_connection_bandwidth_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "bandwidth_type" : "BandwidthPackage",  
    "bandwidth_size" : 20,  
    "is_frozen" : false,  
    "enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "enterprise_router_project_id" : "XXX",  
    "enterprise_router_region_id" : "region-abc",  
    "enterprise_router_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "enterprise_router_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "enterprise_router_site_code" : "site-abc",  
    "attached_er_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "attached_er_table_region_id" : "region-abc",  
    "attached_er_table_project_id" : "XXX",  
    "attached_er_table_site_code" : "site-abc",  
    "attached_er_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "attached_er_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "approved_state" : "APPROVING",  
    "hosted_cloud" : "HWCloud",  
    "reason" : "APPROVING"  
  }  
}
```

Status Codes

Status Code	Description
200	The details about the enterprise router route table on the central network have been queried.

Error Codes

See [Error Codes](#).

4.2.8 Updating an Enterprise Router Route Table on a Central Network

Function

This API is used to update an enterprise router route table on a central network.

URI

PUT /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments/{er_route_table_attachment_id}

Table 4-186 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.
er_route_table_attachment_id	Yes	String	ID of the enterprise router route table attachment on the central network.

Request Parameters

Table 4-187 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-188 Request body parameters

Parameter	Mandatory	Type	Description
central_network_er_route_table_attachment	Yes	UpdateCentralNetworkErRouteTableAttachment object	Details of the enterprise router on the central network to be updated.

Table 4-189 UpdateCentralNetworkErRouteTableAttachment

Parameter	Mandatory	Type	Description
name	No	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.

Response Parameters

Status code: 200

Table 4-190 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_er_route_table_attachment	CentralNetworkErRouteTableAttachment object	Details of the enterprise router route table used as an attachment.

Table 4-191 CentralNetworkErRouteTableAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.
is_frozen	Boolean	Whether the resource is frozen.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
enterprise_router_table_id	String	ID of the enterprise router route table.
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
attached_er_table_project_id	String	Project ID of an enterprise router added to a central network.
attached_er_table_region_id	String	Region ID of an enterprise router.
attached_er_id	String	ID of an enterprise router added to a central network.
attached_er_table_id	String	Route table ID of an enterprise router added to a central network.
attached_er_attachment_id	String	Attachment ID of an enterprise router added to a central network.
attached_er_table_site_code	String	Site code of an enterprise router added to a central network.
hosted_cloud	String	• HWCloud: Huawei Cloud • Ireland: Ireland site

Parameter	Type	Description
approved_state	String	Approval status. • APPROVING: Approving • APPROVED: Approved • UNAPPROVED: Approval failed
reason	String	Reason for rejecting an enterprise router route table as an attachment.

Example Requests

Updating an enterprise router route table on a central network

```
PUT /v3/{domain_id}/gcn/central-network/{central_network_id}/er-route-table-attachments/{er_route_table_attachment_id}

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

Example Responses

Status code: 200

The enterprise router route table on the central network has been updated.

```
{
  "request_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "central_network_er_route_table_attachment": {
    "id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name": "name",
    "description": "description",
    "domain_id": "XXX",
    "state": "AVAILABLE",
    "created_at": "2023-10-09T10:09:28.908Z",
    "updated_at": "2023-10-09T10:09:28.908Z",
    "central_network_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "central_network_plane_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "global_connection_bandwidth_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_type": "BandwidthPackage",
    "bandwidth_size": 20,
    "is_frozen": false,
    "enterprise_router_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_project_id": "XXX",
    "enterprise_router_region_id": "region-abc",
    "enterprise_router_attachment_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_table_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "enterprise_router_site_code": "site-abc",
    "attached_er_table_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "attached_er_table_region_id": "region-abc",
    "attached_er_table_project_id": "XXX",
    "attached_er_table_site_code": "site-abc",
    "attached_er_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "attached_er_attachment_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "approved_state": "APPROVING",
    "hosted_cloud": "HWCloud",
    "reason": "APPROVING"
  }
}
```

```
}  
}
```

Status Codes

Status Code	Description
200	The enterprise router route table on the central network has been updated.

Error Codes

See [Error Codes](#).

4.2.9 Querying the List of Central Network Attachments

Function

This API is used to query the list of central network attachments.

Parameters **marker** and **limit** are used for pagination query. The default value of **limit** is **0**. If **marker** is not specified, the first data record is returned.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/attachments

Table 4-192 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Table 4-193 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000

Parameter	Mandatory	Type	Description
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
sort_key	No	String	Field for sorting.
sort_dir	No	Object	Whether the resources are sorted in ascending or descending order. asc indicates the ascending order and desc indicates the descending order.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
name	No	Array of strings	Resource name. Multiple names can be queried.
attachment_instance_type	No	Array of arrays	Attachment type. Multiple attachment types can be queried.
state	No	Array of arrays	Central network connection status. Multiple statuses can be queried.
attachment_instance_id	No	Array of arrays	Attachment ID.

Request Parameters

Table 4-194 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-195 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
central_network_attachments	Array of CentralNetworkAttachment objects	List of connections on the central network.

Table 4-196 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-197 CentralNetworkAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
is_frozen	Boolean	Whether the resource is frozen.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
attachment_instance_type	String	Type of the resource that can be added to a central network as an attachment. The value can be GDGW (global DC gateway) or ER_ROUTE_TABLE (enterprise router route table).
attachment_instance_id	String	ID of the resource used as an attachment on the central network, for example, enterprise router route table ID or global DC gateway ID.
attachment_id	String	Attachment ID of the enterprise router or peer link ID of the global DC gateway.
attachment_instance_project_id	String	Project ID of the resource used as an attachment on the central network.
attachment_instance_region_id	String	Region ID of the resource used as an attachment on the central network.
attachment_instance_site_code	String	Site code of the resource used as an attachment on the central network.

Parameter	Type	Description
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
specification_value	CentralNetworkAttachmentSpecificationValueInfo object	Additional information about an attachment.

Table 4-198 CentralNetworkAttachmentSpecificationValueInfo

Parameter	Type	Description
enterprise_router_table_id	String	ID of the enterprise router route table.
attachment_parent_instance_id	String	ID of the parent resource of an attachment. Here it is the ID of the enterprise router.
hosted_cloud	String	• HWCloud: Huawei Cloud • Ireland: Ireland site
approved_state	String	Approval status. • APPROVING: Approving • APPROVED: Approved • UNAPPROVED: Approval failed
reason	String	Reason for rejecting attachment creation.

Example Requests

Querying the list of central network attachments

```
GET /v3/{domain_id}/gcn/central-network/{central_network_id}/attachments
```

Example Responses

Status code: 200

The list of attachments on the central network has been queried.

```
{
  "request_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "page_info": {
    "next_marker": "8EDF12u71N...",
    "previous_marker": "8EDF12u71N...",
    "current_count": 1
  },
  "central_network_attachments": [ {
    "id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name": "name",
```

```
"description" : "description",
"domain_id" : "XXX",
"state" : "AVAILABLE",
"created_at" : "2023-10-09T10:13:57.962Z",
"updated_at" : "2023-10-09T10:13:57.962Z",
"central_network_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"global_connection_bandwidth_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"bandwidth_type" : "BandwidthPackage",
"bandwidth_size" : 20,
"is_frozen" : false,
"enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"enterprise_router_project_id" : "XXX",
"enterprise_router_region_id" : "region-abc",
"enterprise_router_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attachment_instance_type" : "GDGW",
"attachment_instance_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attachment_instance_project_id" : "XXX",
"attachment_instance_region_id" : "region-abc",
"attachment_instance_site_code" : "site-abc",
"enterprise_router_site_code" : "site-abc",
"specification_value" : {
  "enterprise_router_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "approved_state" : "APPROVING",
  "hosted_cloud" : "HWCloud",
  "reason" : "string"
}
}
}]
}
```

Status Codes

Status Code	Description
200	The list of attachments on the central network has been queried.

Error Codes

See [Error Codes](#).

4.2.10 Removing an Attachment from a Central Network

Function

This API is used to remove an attachment from a central network.

URI

DELETE /v3/{domain_id}/gcn/central-network/{central_network_id}/attachments/
{attachment_id}

Table 4-199 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Parameter	Mandatory	Type	Description
central_network_id	Yes	String	Central network ID.
attachment_id	Yes	String	ID of the attachment on the central network.

Request Parameters

Table 4-200 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 202

Table 4-201 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_attachment	CentralNetworkAttachment object	Details of the attachment on the central network.

Table 4-202 CentralNetworkAttachment

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
is_frozen	Boolean	Whether the resource is frozen.
enterprise_router_id	String	Enterprise router ID.
enterprise_router_project_id	String	Project ID of the enterprise router.
enterprise_router_region_id	String	Region ID of an enterprise router.
enterprise_router_attachment_id	String	Attachment ID of the enterprise router.
attachment_instance_type	String	Type of the resource that can be added to a central network as an attachment. The value can be GDGW (global DC gateway) or ER_ROUTE_TABLE (enterprise router route table).
attachment_instance_id	String	ID of the resource used as an attachment on the central network, for example, enterprise router route table ID or global DC gateway ID.
attachment_id	String	Attachment ID of the enterprise router or peer link ID of the global DC gateway.
attachment_instance_project_id	String	Project ID of the resource used as an attachment on the central network.
attachment_instance_region_id	String	Region ID of the resource used as an attachment on the central network.
attachment_instance_site_code	String	Site code of the resource used as an attachment on the central network.

Parameter	Type	Description
enterprise_router_site_code	String	Site code of the enterprise router on a central network.
specification_value	CentralNetworkAttachmentSpecificationValueInfo object	Additional information about an attachment.

Table 4-203 CentralNetworkAttachmentSpecificationValueInfo

Parameter	Type	Description
enterprise_router_table_id	String	ID of the enterprise router route table.
attachment_parent_instance_id	String	ID of the parent resource of an attachment. Here it is the ID of the enterprise router.
hosted_cloud	String	• HWCloud: Huawei Cloud • Ireland: Ireland site
approved_state	String	Approval status. • APPROVING: Approving • APPROVED: Approved • UNAPPROVED: Approval failed
reason	String	Reason for rejecting attachment creation.

Example Requests

Removing an attachment from a central network

```
DELETE /v3/{domain_id}/gcn/central-network/{central_network_id}/attachments/{attachment_id}
```

Example Responses

Status code: 202

The attachment has been removed from the central network.

```
{
  "request_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "central_network_attachment" : {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "XXX",
    "state" : "AVAILABLE",
    "created_at" : "2023-10-09T10:15:32.134Z",
    "updated_at" : "2023-10-09T10:15:32.134Z",
  }
}
```

```
"central_network_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"central_network_plane_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"global_connection_bandwidth_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"bandwidth_type" : "BandwidthPackage",
"bandwidth_size" : 20,
"is_frozen" : false,
"enterprise_router_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"enterprise_router_project_id" : "XXX",
"enterprise_router_region_id" : "region-abc",
"enterprise_router_attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attachment_instance_type" : "GDGW",
"attachment_instance_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attachment_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
"attachment_instance_project_id" : "XXX",
"attachment_instance_region_id" : "region-abc",
"attachment_instance_site_code" : "site-abc",
"enterprise_router_site_code" : "site-abc",
"specification_value" : {
  "enterprise_router_table_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "attached_er_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "approved_state" : "APPROVING",
  "hosted_cloud" : "HWCloud",
  "reason" : "string"
}
}
```

Status Codes

Status Code	Description
202	The attachment has been removed from the central network.

Error Codes

See [Error Codes](#).

4.3 Central Network Connections

4.3.1 Querying the List of Central Network Connections

Function

This API is used to query the list of central network connections.

Parameters **marker** and **limit** are used for pagination query. The default value of **limit** is **0**. If **marker** is not specified, the first data record is returned.

URI

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/connections

Table 4-204 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.

Table 4-205 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
sort_key	No	String	Field for sorting.
sort_dir	No	Object	Whether the resources are sorted in ascending or descending order. asc indicates the ascending order and desc indicates the descending order.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
name	No	Array of strings	Resource name. Multiple names can be queried.
state	No	Array of arrays	Central network connection status. Multiple statuses can be queried.

Parameter	Mandatory	Type	Description
global_connection_bandwidth_id	No	Array of arrays	Bandwidth package IDs.
bandwidth_type	No	Object	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
connection_type	No	Object	Connection type.
is_cross_region	No	Boolean	Whether there are different regions.

Request Parameters

Table 4-206 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-207 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.

Parameter	Type	Description
central_network_connections	Array of CentralNetworkConnection objects	List of the central network connections.

Table 4-208 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-209 CentralNetworkConnection

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
is_frozen	Boolean	Whether the resource is frozen.

Parameter	Type	Description
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.

Table 4-210 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Querying the list of central network connections

GET /v3/{domain_id}/gcn/central-network/{central_network_id}/connections

Example Responses

Status code: 200

The list of central network connections has been queried.

```
{
  "request_id" : "0050ea65af7e190d9a791d9e69f28e63",
  "page_info" : {
    "current_count" : 1
  },
  "central_network_connections" : [ {
    "id" : "eb350a5c-06c1-4b12-9ae4-3820f31faaa0",
    "name" : "er-connection",
    "domain_id" : "XXX",
    "enterprise_project_id" : "0",
    "central_network_id" : "43ad756e-2780-463e-a8ed-27a5bd77b7a7",
    "central_network_plane_id" : "238f60d5-ed1a-4508-8473-45509c530c8f",
    "bandwidth_type" : "TestBandwidth",
    "state" : "AVAILABLE",
    "is_frozen" : false,
    "connection_type" : "ER-ER",
    "connection_point_pair" : [ {
      "id" : "1c233723-234c-4b50-8fba-7072b4c6aa1a",
      "project_id" : "XXX",
      "region_id" : "region-abc",
      "site_code" : "region-abc",
      "instance_id" : "d238dd85-f769-485b-aa05-d20e1d3889df",
      "type" : "ER"
    }, {
      "id" : "8641d7f0-bd0c-49fe-8b70-3649cd7dd9b1",
      "project_id" : "XXX",
      "region_id" : "region-abc",
      "site_code" : "region-abc",
      "instance_id" : "96abbb18-4a77-4103-aa8e-b1c836154282",
      "type" : "ER"
    } ],
    "created_at" : "2023-10-09T08:02:43.31Z",
    "updated_at" : "2023-10-09T08:02:43.307Z"
  } ]
}
```

Status Codes

Status Code	Description
200	The list of central network connections has been queried.

Error Codes

See [Error Codes](#).

4.3.2 Modifying the Bandwidth of a Central Network Connection

Function

This API is used to update a central network connection. Only the bandwidth capacity can be modified.

URI

PUT /v3/{domain_id}/gcn/central-network/{central_network_id}/connections/{connection_id}

Table 4-211 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
central_network_id	Yes	String	Central network ID.
connection_id	Yes	String	ID of the connection on the central network.

Request Parameters

Table 4-212 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-213 Request body parameters

Parameter	Mandatory	Type	Description
central_network_connection	Yes	UpdateCentralNetworkConnection object	Details of the central network connection to be updated. • bandwidth_type: bandwidth package (billed by bandwidth capacity or traffic) or test bandwidth (free bandwidth for testing cross-region connectivity) • global_connection_bandwidth_id: mandatory if bandwidth_type is BandwidthPackage • bandwidth_size: mandatory if bandwidth_type is Traffic or BandwidthPackage (the sum of cross-site connection bandwidths cannot exceed the capacity of the bandwidth package) and is not specified if bandwidth_type is set to TestBandwidth

Table 4-214 UpdateCentralNetworkConnection

Parameter	Mandatory	Type	Description
bandwidth_type	Yes	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.

Parameter	Mandatory	Type	Description
global_connection_bandwidth_id	No	String	Global connection bandwidth ID.
bandwidth_size	No	Integer	Bandwidth capacity, in Mbit/s.

Response Parameters

Status code: 202

Table 4-215 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
central_network_connection	CentralNetworkConnection object	Connection on the central network.

Table 4-216 CentralNetworkConnection

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
central_network_id	String	Central network ID.
central_network_plane_id	String	ID of the central network plane.
global_connection_bandwidth_id	String	Global connection bandwidth ID.

Parameter	Type	Description
bandwidth_type	String	Bandwidth type. The bandwidth types are as follows: • BandwidthPackage: A global connection bandwidth billed by fixed bandwidth is required, and cross-site connection bandwidths are assigned from the global connection bandwidth. • TestBandwidth: The test bandwidth is free. Only the minimum bandwidth is used for testing cross-region connectivity.
bandwidth_size	Integer	Bandwidth capacity, in Mbit/s.
state	String	Central network connection status. • AVAILABLE: The connection is available. • CREATING: The connection is being created. • UPDATING: The connection is being updated. • DELETING: The connection is being deleted. • FREEZING: The connection is being frozen. • UNFREEZING: The connection is being unfrozen. • RECOVERING: The connection is being recovered. • FAILED: The operation on the connection failed. • DELETED: The connection is deleted. • APPROVING: The connection is being approved. • APPROVED: The connection is approved. • UNAPPROVED: The approval failed.
is_frozen	Boolean	Whether the resource is frozen.

Parameter	Type	Description
connection_type	String	Type of a central network connection. • ER-ER: peering connection between enterprise routers • ER-GDGW: connection between an enterprise router and a global DC gateway • ER-ER_ROUTE_TABLE: connection between an enterprise router and an enterprise router route table
connection_point_pair	Array of ConnectionPoint objects	Both ends of a central network connection. The length is fixed to an array of 2.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.

Table 4-217 ConnectionPoint

Parameter	Type	Description
id	String	Instance ID.
project_id	String	Project ID.
region_id	String	Region ID.
site_code	String	Site code.
instance_id	String	Instance ID at an end of a connection.
parent_instance_id	String	Parent resource ID of the instance at an end of a connection.
type	String	Type of the resource that can be added to a central network as an attachment. • ER: enterprise router • GDGW: global DC gateway • ER_ROUTE_TABLE: enterprise router route table

Example Requests

Updating a cross-site connection on a central network


```
PUT /v3/{domain_id}/gcn/central-network/{central_network_id}/connections/{connection_id}

{
  "central_network_connection": {
    "bandwidth_type": "BandwidthPackage",
    "global_connection_bandwidth_id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "bandwidth_size": 20
  }
}
```

Example Responses

Status code: 202

The central network connection has been updated.

```
{
  "request_id": "e108915cd5de228ef252be95ce6ef2c2",
  "central_network_connection": {
    "id": "eb350a5c-06c1-4b12-9ae4-3820f31faaa0",
    "name": "er-connection",
    "domain_id": "XXX",
    "enterprise_project_id": "0",
    "central_network_id": "43ad756e-2780-463e-a8ed-27a5bd77b7a7",
    "central_network_plane_id": "238f60d5-ed1a-4508-8473-45509c530c8f",
    "bandwidth_type": "TestBandwidth",
    "state": "UPDATING",
    "is_frozen": false,
    "connection_type": "ER-ER",
    "connection_point_pair": [ {
      "id": "1c233723-234c-4b50-8fba-7072b4c6aa1a",
      "project_id": "XXX",
      "region_id": "region-abc",
      "site_code": "region-abc",
      "instance_id": "d238dd85-f769-485b-aa05-d20e1d3889df",
      "type": "ER"
    }, {
      "id": "8641d7f0-bd0c-49fe-8b70-3649cd7dd9b1",
      "project_id": "XXX",
      "region_id": "region-abc",
      "site_code": "region-abc",
      "instance_id": "96abbb18-4a77-4103-aa8e-b1c836154282",
      "type": "ER"
    } ],
    "created_at": "2023-10-09T08:02:43.31Z",
    "updated_at": "2023-10-09T08:02:43.307Z"
  }
}
```

Status Codes

Status Code	Description
202	The central network connection has been updated.

Error Codes

See [Error Codes](#).

4.4 Central Network Quotas

4.4.1 Querying Central Network Resource Quotas

Function

This API is used to query the resource quotas.

URI

GET /v3/{domain_id}/gcn/quotas

Table 4-218 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-219 Query Parameters

Parameter	Mandatory	Type	Description
quota_type	No	Array of arrays	Quota type. Multiple quota types can be queried.
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.

Request Parameters

Table 4-220 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-221 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
quotas	Array of CentralNetwork Quota objects	Quota list.

Table 4-222 CentralNetworkQuota

Parameter	Type	Description
quota_key	String	Quota type of a central network. • central_networks_per_account: number of central networks per account • policy_versions_per_central_network: number of policies per central network • size_of_document_per_central_network_policy_version: size of the central network policy document, in KB • planes_per_central_network: number of planes per central network • er_instances_per_region_per_central_network: number of enterprise routers that can be added to each central network as attachments in each region • connections_per_central_network: number of connections per central network • attachments_per_central_network: number of attachments per central network • GDGW_attachments_per_region_per_central_network: number of global DC gateways that can be added to each central network as attachments in each region • ER_ROUTE_TABLE_attachments_per_region_per_central_network: number of enterprise router route table attachments on each central network in each region
quota_limit	Integer	Quotas.
used	Integer	Used quotas.
unit	String	Unit of the quota value.

Example Requests

Querying resource quotas

GET https://{cc_endpoint}/v3/{domain_id}/gcn/quotas

Example Responses

Status code: 200

The central network resource quotas have been queried.

```
{
  "request_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "quotas" : [ {
    "quota_key" : "central_networks_per_account",
    "quota_limit" : 6,
    "used" : 0,
    "unit" : "count"
  } ]
}
```

Status Codes

Status Code	Description
200	The central network resource quotas have been queried.

Error Codes

See [Error Codes](#).

4.5 Central Network Capabilities

4.5.1 Querying Central Network Capabilities

Function

This API is used to query central network capabilities.

URI

GET /v3/{domain_id}/gcn/capabilities

Table 4-223 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-224 Query Parameters

Parameter	Mandatory	Type	Description
capability	No	Array of arrays	Capabilities. Multiple capabilities can be queried.
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.

Request Parameters

Table 4-225 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-226 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.

Parameter	Type	Description
capabilities	Array of CentralNetworkCapability objects	List of central network capabilities.

Table 4-227 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-228 CentralNetworkCapability

Parameter	Type	Description
id	String	Instance ID.
domain_id	String	ID of the account that the instance belongs to.

Parameter	Type	Description
capability	String	Central network capabilities. • central-network.is-support: central networks • central-network.is-support-enterprise-project: enterprise projects for central networks • central-network.is-support-tag: central network tagging • central-network.is-support-custom-er-table: custom route tables on central networks • connection-bandwidth.size-range: bandwidth capacity for a cross-site connection • connection-bandwidth.charge-mode: billing mode of the global connection bandwidth for assigning cross-site connection bandwidths • connection-bandwidth.free-line: free lines for cross-site connections • er-instance.support-regions: list of the regions where Enterprise Router is available • er-instance.support-ipv6-regions: list of the regions where Enterprise Router supports IPv6 • er-instance.support-dscp-regions: list of the regions that support global connection bandwidth classes for enterprise routers • er-instance.support-sts5-regions: list of the regions where sts5 can make API calls to Enterprise Router • er-instance.support-sites: list of the sites where Enterprise Router is available • custom-connections.is-support: custom connections • custom-connections.support-regions: list of the regions where custom connections can be created • gdgw-instance.support-dscp-regions: list of the regions where the bandwidth for global DC gateways has different classes

Parameter	Type	Description
		• gdgw-instance.support-freeze-regions: list of the regions where global connection bandwidths used by global DC gateways can be frozen • gdgw-attachment.is-support: global DC gateways as attachments • gdgw-attachment.support-regions: list of the regions where global DC gateways can be used as attachments • gdgw-attachment.support-sites: list of the sites where global DC gateways can be used as attachments • er-route-table-attachment.is-support: enterprise router route tables as attachments • er-route-table-attachment.support-regions: list of the regions where enterprise router route tables can be used as attachments • er-route-table-attachment.support-sites: list of the sites where enterprise router route tables can be used as attachments • cloud-alliance.support-regions: list of the regions that support Cloud Alliance

Example Requests

Querying central network capabilities

```
GET https://{cc_endpoint}/v3/gcn/capabilities
```

Example Responses

Status code: 200

Central network capabilities have been queried.

```
{
  "request_id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "page_info" : {
    "current_count" : 1
  },
  "capabilities" : [ {
```

```
{
  "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
  "domain_id" : "XXX",
  "capability" : "central-network.is-support",
  "specifications" : {
    "is_support" : true
  }
}]
}
```

Status Codes

Status Code	Description
200	Central network capabilities have been queried.

Error Codes

See [Error Codes](#).

4.6 Global Connection Bandwidths

4.6.1 Querying the Global Connection Bandwidth List

Function

This API is used to query the global connection bandwidth list.

Parameters **marker** and **limit** are used for pagination query. The two parameters take effect only when they are used together.

URI

GET /v3/{domain_id}/gcb/gcbbandwidths

Table 4-229 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-230 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000

Parameter	Mandatory	Type	Description
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
name	No	Array of strings	Resource name. Multiple names can be queried.
enterprise_project_id	No	Array of strings	Enterprise project IDs.
instance_id	No	Array of strings	Bound instance ID used for listing global connection bandwidths.
instance_type	No	Array of strings	Instance type used for listing global connection bandwidths. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network
binding_service	No	Array of strings	Instance type used for listing global connection bandwidths. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network

Parameter	Mandatory	Type	Description
type	No	Array of strings	Bandwidth type used for listing global connection bandwidths. • TrsArea: cross-geographic-region bandwidth • Area: geographic-region bandwidth • SubArea: region bandwidth • Region: multi-city bandwidth
admin_state	No	Array of strings	Status used for listing global connection bandwidths. • NORMAL: The global connection bandwidth is available. • FREEZED: The global connection bandwidth is frozen.
charge_mode	No	Array of strings	Billing option used for querying global connection bandwidths. • bwd: billed by bandwidth • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth billing

Request Parameters

Table 4-231 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-232 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
globalconnection_bandwidths	Array of GlobalConnectionBandwidth objects	Response body for querying the global connection bandwidth list.

Table 4-233 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-234 GlobalConnectionBandwidth

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
bordercross	Boolean	Whether the global connection bandwidth is used for cross-border communications (between the Chinese mainland and a country/region outside the Chinese mainland). • True: The global connection is used for cross-border communications. • False: The global connection is not used for non-cross-border communications.

Parameter	Type	Description
type	String	Type of a global connection bandwidth. • TrsArea: cross-geographic-region bandwidth • Area: geographic-region bandwidth • SubArea: region bandwidth • Region: multi-city bandwidth
binding_service	String	Instance type. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network • ALL: all instance types
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
charge_mode	String	Billing option. By default, billing by bandwidth capacity is enabled. Standard 95th percentile bandwidth billing is controlled using a whitelist. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
size	Integer	The capacity of a global connection bandwidth, in Mbit/s. Value range: 2 Mbit/s to 300 Mbit/s
sla_level	String	Class of a global connection bandwidth. There are three classes: platinum, gold, and silver. The default class is gold. Other options are controlled by whitelists. • Pt: Platinum • Au: Gold • Ag: Silver
local_area	String	Name of a local access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.

Parameter	Type	Description
remote_area	String	Name of a remote access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
local_site_code	String	Code of the local access point.
remote_site_code	String	Code of s remote access point.
admin_state	String	Global connection bandwidth status. • NORMAL: The bandwidth is normal. • FREEZED: The bandwidth is frozen.
frozen	Boolean	Whether a global connection bandwidth is frozen. • true: The bandwidth is frozen. • false: The bandwidth is not frozen.
spec_code_id	String	UUID of a line specification code.
tags	Array of Tag objects	Resource tags.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
enable_share	Boolean	Whether a global connection bandwidth can be used by multiple instances. • true: The bandwidth can be used by multiple instances. • false: The bandwidth cannot be used by multiple instances.
instances	Array of GlobalConnectionBandwidthAssociatedInstance objects	The list of instances that the global connection bandwidth is bound to.

Table 4-235 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-236 GlobalConnectionBandwidthAssociatedInstance

Parameter	Type	Description
id	String	Bound instance ID.
type	String	Bound instance type.
region_id	String	Region of the bound instance. The default value is global for global services.
project_id	String	Project ID of the bound instance.

Example Requests

Querying the global connection bandwidth list

```
GET https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths
```

Example Responses

Status code: 200

The global connection bandwidth list has been queried.

```
{
  "request_id" : "61126320a1802d5c6444f9d2d76526c2",
  "globalconnection_bandwidths" : [ {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "521bb3d98bed4c6c9ee8669bd0620f76",
    "bordercross" : false,
    "type" : "Region",
    "binding_service" : "CC",
    "enterprise_project_id" : "0c478f9e-73a4-4c45-b9bc-b2c3bfc0d4c0",
    "charge_mode" : "bwd",
    "size" : 100,
    "sla_level" : "Au",
    "local_site_code" : "site-abc",
    "remote_site_code" : "site-def",
    "frozen" : false,
```



```
"spec_code_id" : "",
"tags" : [ ],
"created_at" : "2024-01-24T08:26:41.914Z",
"updated_at" : "2024-01-24T08:26:41.914Z",
"enable_share" : false,
"instances" : [ ]
}],
"page_info" : {
  "next_marker" : "XXX",
  "previous_marker" : "XXX",
  "current_count" : 1
}
}
```

Status Codes

Status Code	Description
200	The global connection bandwidth list has been queried.

Error Codes

See [Error Codes](#).

4.6.2 Creating a Global Connection Bandwidth

Function

This API is used to create a global connection bandwidth.

URI

POST /v3/{domain_id}/gcb/gcbbandwidths

Table 4-237 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Request Parameters

Table 4-238 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-239 Request body parameters

Parameter	Mandatory	Type	Description
globalconnection_bandwidth	Yes	CreateGlobalConnectionBandwidth object	Details about a global connection bandwidth.

Table 4-240 CreateGlobalConnectionBandwidth

Parameter	Mandatory	Type	Description
name	Yes	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.
bordercross	Yes	Boolean	Whether the global connection bandwidth is used for cross-border communications (between the Chinese mainland and a country/region outside the Chinese mainland). • True: The global connection is used for cross-border communications. • False: The global connection is not used for non-cross-border communications.
type	Yes	String	Type of a global connection bandwidth. • TrsArea: cross-geographic-region bandwidth • Area: geographic-region bandwidth • SubArea: region bandwidth • Region: multi-city bandwidth
enterprise_project_id	No	String	ID of the enterprise project that the resource belongs to.
tags	No	Array of Tag objects	Resource tags.

Parameter	Mandatory	Type	Description
charge_mode	Yes	String	Billing option. By default, billing by bandwidth capacity is enabled. Standard 95th percentile bandwidth billing is controlled using a whitelist. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
size	Yes	Integer	The capacity of a global connection bandwidth, in Mbit/s. Value range: 2 Mbit/s to 300 Mbit/s
sla_level	No	String	Class of a global connection bandwidth. There are three classes: platinum, gold, and silver. The default class is gold. Other options are controlled by whitelists. • Pt: Platinum • Au: Gold • Ag: Silver
local_area	No	String	Local access point. This parameter is used together with remote_area to describe the applicability of a global connection bandwidth. The value can contain 1 to 64 characters, including digits, letters, underscores (_), hyphens (-), and periods (.). The site code is obtained through API calls. If the bandwidth type is Region , this parameter is optional. For other types, this parameter is mandatory.

Parameter	Mandatory	Type	Description
remote_area	No	String	Remote access point. This parameter is used together with local_area to describe the applicability of a global connection bandwidth. The value can contain 1 to 64 characters, including digits, letters, underscores (_), hyphens (-), and periods (.). The site code is obtained through API calls. If the bandwidth type is Region , this parameter is optional. For other types, this parameter is mandatory.
spec_code_id	No	String	UUID of a line specification code.

Table 4-241 Tag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	No	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Response Parameters

Status code: 201

Table 4-242 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.

Parameter	Type	Description
globalconnection_bandwidth	GlobalConnectionBandwidth object	Details about a global connection bandwidth.

Table 4-243 GlobalConnectionBandwidth

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
bordercross	Boolean	Whether the global connection bandwidth is used for cross-border communications (between the Chinese mainland and a country/region outside the Chinese mainland). • True: The global connection is used for cross-border communications. • False: The global connection is not used for non-cross-border communications.
type	String	Type of a global connection bandwidth. • TrsArea: cross-geographic-region bandwidth • Area: geographic-region bandwidth • SubArea: region bandwidth • Region: multi-city bandwidth
binding_service	String	Instance type. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network • ALL: all instance types
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.

Parameter	Type	Description
charge_mode	String	Billing option. By default, billing by bandwidth capacity is enabled. Standard 95th percentile bandwidth billing is controlled using a whitelist. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
size	Integer	The capacity of a global connection bandwidth, in Mbit/s. Value range: 2 Mbit/s to 300 Mbit/s
sla_level	String	Class of a global connection bandwidth. There are three classes: platinum, gold, and silver. The default class is gold. Other options are controlled by whitelists. • Pt: Platinum • Au: Gold • Ag: Silver
local_area	String	Name of a local access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
remote_area	String	Name of a remote access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
local_site_code	String	Code of the local access point.
remote_site_code	String	Code of s remote access point.
admin_state	String	Global connection bandwidth status. • NORMAL: The bandwidth is normal. • FREEZED: The bandwidth is frozen.
frozen	Boolean	Whether a global connection bandwidth is frozen. • true: The bandwidth is frozen. • false: The bandwidth is not frozen.

Parameter	Type	Description
spec_code_id	String	UUID of a line specification code.
tags	Array of Tag objects	Resource tags.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
enable_share	Boolean	Whether a global connection bandwidth can be used by multiple instances. • true: The bandwidth can be used by multiple instances. • false: The bandwidth cannot be used by multiple instances.
instances	Array of GlobalConnectionBandwidthAssociatedInstance objects	The list of instances that the global connection bandwidth is bound to.

Table 4-244 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-245 GlobalConnectionBandwidthAssociatedInstance

Parameter	Type	Description
id	String	Bound instance ID.
type	String	Bound instance type.

Parameter	Type	Description
region_id	String	Region of the bound instance. The default value is global for global services.
project_id	String	Project ID of the bound instance.

Example Requests

- Creating a multi-city bandwidth

POST https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths

```
{
  "globalconnection_bandwidth" : {
    "name" : "test_region",
    "description" : "Description",
    "bordercross" : false,
    "type" : "Region",
    "charge_mode" : "bwd",
    "size" : 5
  }
}
```

- Creating a geographic-region bandwidth

POST https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidth

```
{
  "globalconnection_bandwidth" : {
    "name" : "test_area",
    "description" : "Description",
    "bordercross" : false,
    "type" : "Area",
    "charge_mode" : "bwd",
    "size" : 5,
    "local_area" : "site-abc",
    "remote_area" : "site-def"
  }
}
```

Example Responses

Status code: 201

The global connection bandwidth has been created.

```
{
  "request_id" : "1b90e4762e3090961a30ca3a712dc0ed",
  "globalconnection_bandwidth" : {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "521bb3d98bed4c6c9ee8669bd0620f76",
    "bordercross" : false,
    "type" : "Region",
    "binding_service" : "CC",
    "enterprise_project_id" : "0c478f9e-73a4-4c45-b9bc-b2c3bfc0d4c0",
    "charge_mode" : "bwd",
    "size" : 100,
    "sla_level" : "Au",
    "local_site_code" : "site-def",
    "remote_site_code" : "site-abc",
    "frozen" : false,
  }
}
```



```
"spec_code_id" : "",
"tags" : [ ],
"created_at" : "2024-01-24T08:26:41.914Z",
"updated_at" : "2024-01-24T08:26:41.914Z",
"enable_share" : false,
"instances" : [ ]
}
```

Status Codes

Status Code	Description
201	The global connection bandwidth has been created.

Error Codes

See [Error Codes](#).

4.6.3 Querying a Global Connection Bandwidth

Function

This API is used to query the details about a global connection bandwidth.

URI

GET /v3/{domain_id}/gcb/gcbbandwidths/{id}

Table 4-246 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
id	Yes	String	Instance ID.

Request Parameters

Table 4-247 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-248 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
globalconnection_bandwidth	GlobalConnectionBandwidth object	Details about a global connection bandwidth.

Table 4-249 GlobalConnectionBandwidth

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
bordercross	Boolean	Whether the global connection bandwidth is used for cross-border communications (between the Chinese mainland and a country/region outside the Chinese mainland). • True: The global connection is used for cross-border communications. • False: The global connection is not used for non-cross-border communications.
type	String	Type of a global connection bandwidth. • TrsArea: cross-geographic-region bandwidth • Area: geographic-region bandwidth • SubArea: region bandwidth • Region: multi-city bandwidth
binding_service	String	Instance type. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network • ALL: all instance types

Parameter	Type	Description
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
charge_mode	String	Billing option. By default, billing by bandwidth capacity is enabled. Standard 95th percentile bandwidth billing is controlled using a whitelist. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
size	Integer	The capacity of a global connection bandwidth, in Mbit/s. Value range: 2 Mbit/s to 300 Mbit/s
sla_level	String	Class of a global connection bandwidth. There are three classes: platinum, gold, and silver. The default class is gold. Other options are controlled by whitelists. • Pt: Platinum • Au: Gold • Ag: Silver
local_area	String	Name of a local access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
remote_area	String	Name of a remote access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
local_site_code	String	Code of the local access point.
remote_site_code	String	Code of s remote access point.
admin_state	String	Global connection bandwidth status. • NORMAL: The bandwidth is normal. • FREEZED: The bandwidth is frozen.

Parameter	Type	Description
frozen	Boolean	Whether a global connection bandwidth is frozen. • true: The bandwidth is frozen. • false: The bandwidth is not frozen.
spec_code_id	String	UUID of a line specification code.
tags	Array of Tag objects	Resource tags.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
enable_share	Boolean	Whether a global connection bandwidth can be used by multiple instances. • true: The bandwidth can be used by multiple instances. • false: The bandwidth cannot be used by multiple instances.
instances	Array of GlobalConnectionBandwidthAssociatedInstance objects	The list of instances that the global connection bandwidth is bound to.

Table 4-250 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-251 GlobalConnectionBandwidthAssociatedInstance

Parameter	Type	Description
id	String	Bound instance ID.
type	String	Bound instance type.
region_id	String	Region of the bound instance. The default value is global for global services.
project_id	String	Project ID of the bound instance.

Example Requests

Querying a global connection bandwidth

GET https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths/{id}

Example Responses

Status code: 200

The global connection bandwidth details have been queried.

```
{
  "request_id" : "1b90e4762e3090961a30ca3a712dc0ed",
  "globalconnection_bandwidth" : {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "521bb3d98bed4c6c9ee8669bd0620f76",
    "bordercross" : false,
    "type" : "Region",
    "binding_service" : "CC",
    "enterprise_project_id" : "0c478f9e-73a4-4c45-b9bc-b2c3bfc0d4c0",
    "charge_mode" : "bwd",
    "size" : 100,
    "sla_level" : "Au",
    "local_site_code" : "site-def",
    "remote_site_code" : "site-abc",
    "frozen" : false,
    "spec_code_id" : "",
    "tags" : [ ],
    "created_at" : "2024-01-24T08:26:41.914Z",
    "updated_at" : "2024-01-24T08:26:41.914Z",
    "enable_share" : false,
    "instances" : [ ]
  }
}
```

Status Codes

Status Code	Description
200	The global connection bandwidth details have been queried.

Error Codes

See [Error Codes](#).

4.6.4 Updating a Global Connection Bandwidth

Function

This API is used to update a global connection bandwidth.

URI

PUT /v3/{domain_id}/gcb/gcbbandwidths/{id}

Table 4-252 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
id	Yes	String	Instance ID.

Request Parameters

Table 4-253 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-254 Request body parameters

Parameter	Mandatory	Type	Description
globalconnection_bandwidth	Yes	UpdateGlobalConnectionBandwidth object	Details about a global connection bandwidth.

Table 4-255 UpdateGlobalConnectionBandwidth

Parameter	Mandatory	Type	Description
name	No	String	Instance name.
description	No	String	Resource description. Angle brackets (<>) are not allowed.

Parameter	Mandatory	Type	Description
size	No	Integer	The capacity of a global connection bandwidth, in Mbit/s. Value range: 2 Mbit/s to 300 Mbit/s
charge_mode	No	String	Billing option. By default, billing by bandwidth capacity is enabled. Standard 95th percentile bandwidth billing is controlled using a whitelist. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
sla_level	No	String	Class of a global connection bandwidth. There are three classes: platinum, gold, and silver. The default class is gold. Other options are controlled by whitelists. • Pt: Platinum • Au: Gold • Ag: Silver
binding_service	No	String	Instance type. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network • ALL: all instance types
spec_code_id	No	String	UUID of a line specification code.

Response Parameters

Status code: 200

Table 4-256 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
globalconnection_bandwidth	GlobalConnectionBandwidth object	Details about a global connection bandwidth.

Table 4-257 GlobalConnectionBandwidth

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
bordercross	Boolean	Whether the global connection bandwidth is used for cross-border communications (between the Chinese mainland and a country/region outside the Chinese mainland). • True: The global connection is used for cross-border communications. • False: The global connection is not used for non-cross-border communications.
type	String	Type of a global connection bandwidth. • TrsArea: cross-geographic-region bandwidth • Area: geographic-region bandwidth • SubArea: region bandwidth • Region: multi-city bandwidth
binding_service	String	Instance type. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network • ALL: all instance types

Parameter	Type	Description
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
charge_mode	String	Billing option. By default, billing by bandwidth capacity is enabled. Standard 95th percentile bandwidth billing is controlled using a whitelist. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
size	Integer	The capacity of a global connection bandwidth, in Mbit/s. Value range: 2 Mbit/s to 300 Mbit/s
sla_level	String	Class of a global connection bandwidth. There are three classes: platinum, gold, and silver. The default class is gold. Other options are controlled by whitelists. • Pt: Platinum • Au: Gold • Ag: Silver
local_area	String	Name of a local access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
remote_area	String	Name of a remote access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
local_site_code	String	Code of the local access point.
remote_site_code	String	Code of s remote access point.
admin_state	String	Global connection bandwidth status. • NORMAL: The bandwidth is normal. • FREEZED: The bandwidth is frozen.

Parameter	Type	Description
frozen	Boolean	Whether a global connection bandwidth is frozen. • true: The bandwidth is frozen. • false: The bandwidth is not frozen.
spec_code_id	String	UUID of a line specification code.
tags	Array of Tag objects	Resource tags.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
enable_share	Boolean	Whether a global connection bandwidth can be used by multiple instances. • true: The bandwidth can be used by multiple instances. • false: The bandwidth cannot be used by multiple instances.
instances	Array of GlobalConnectionBandwidthAssociatedInstance objects	The list of instances that the global connection bandwidth is bound to.

Table 4-258 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-259 GlobalConnectionBandwidthAssociatedInstance

Parameter	Type	Description
id	String	Bound instance ID.
type	String	Bound instance type.
region_id	String	Region of the bound instance. The default value is global for global services.
project_id	String	Project ID of the bound instance.

Example Requests

Updating a global connection bandwidth

```
PUT https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths/{id}

{
  "globalconnection_bandwidth" : {
    "name" : "test",
    "description" : "Description",
    "size" : 5
  }
}
```

Example Responses

Status code: 200

The global connection bandwidth has been updated.

```
{
  "request_id" : "1b90e4762e3090961a30ca3a712dc0ed",
  "globalconnection_bandwidth" : {
    "id" : "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
    "name" : "name",
    "description" : "description",
    "domain_id" : "521bb3d98bed4c6c9ee8669bd0620f76",
    "bordercross" : false,
    "type" : "Region",
    "binding_service" : "CC",
    "enterprise_project_id" : "0c478f9e-73a4-4c45-b9bc-b2c3bfc0d4c0",
    "charge_mode" : "bwd",
    "size" : 100,
    "sla_level" : "Au",
    "local_site_code" : "site-def",
    "remote_site_code" : "site-abc",
    "frozen" : "false",
    "spec_code_id" : "",
    "tags" : [ ],
    "created_at" : "2024-01-24T08:26:41.914Z",
    "updated_at" : "2024-01-24T08:26:41.914Z",
    "enable_share" : false,
    "instances" : [ ]
  }
}
```

Status Codes

Status Code	Description
200	The global connection bandwidth has been updated.

Error Codes

See [Error Codes](#).

4.6.5 Deleting a Global Connection Bandwidth

Function

This API is used to delete a global connection bandwidth.

URI

DELETE /v3/{domain_id}/gcb/gcbbandwidths/{id}

Table 4-260 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
id	Yes	String	Instance ID.

Request Parameters

Table 4-261 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 204

The global connection bandwidth has been deleted.

None

Example Requests

Deleting a global connection bandwidth

DELETE https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths/{id}

Example Responses

None

Status Codes

Status Code	Description
204	The global connection bandwidth has been deleted.

Error Codes

See [Error Codes](#).

4.6.6 Binding a Global Connection Bandwidth to an Instance

Function

This API is used to bind a global connection bandwidth to an instance.

URI

POST /v3/{domain_id}/gcb/gcbbandwidths/{id}/associate-instance

Table 4-262 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
id	Yes	String	Instance ID.

Request Parameters

Table 4-263 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-264 Request body parameters

Parameter	Mandatory	Type	Description
gcbandwidths	Yes	Array of AssociateGlobalConnectionBandwidthInstanceRequestInfo objects	Detailed information about the instance that the global connection bandwidth is bound to.

Table 4-265 AssociateGlobalConnectionBandwidthInstanceRequestInfo

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Instance ID. The ID can contain 1 to 36 characters, including letters, digits, underscores (_), and hyphens (-).
resource_type	Yes	String	Instance type.
region_id	No	String	Region where the instance is located. If this parameter is left blank, the default value is global .
project_id	Yes	String	Project ID of the region where the instance is located.

Response Parameters

Status code: 200

Table 4-266 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
gcbandwidths	Array of AssociateGlobalConnectionBandwidthInstanceResponseInfo objects	Response to the operation for binding a global connection bandwidth to an instance

Table 4-267 AssociateGlobalConnectionBandwidthInstanceResponseInfo

Parameter	Type	Description
resource_id	String	Instance ID. The ID can contain 1 to 36 characters, including letters, digits, underscores (_), and hyphens (-).
resource_type	String	Instance type.
region_id	String	Region where the instance is located. If this parameter is left blank, the default value is global .
project_id	String	Project ID of the region where the instance is located.
result	String	Binding operation result. • success: The operation is successful. • fail: The operation failed.
message	String	Error information when the binding operation fails.

Example Requests

Binding a global connection bandwidth to an instance

```
POST https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths/{id}/associate-instance
```

```
{
  "gcbbandwidths" : [ {
    "resource_type" : "GEIP",
    "resource_id" : "37289f8a-8fd2-4eff-a6c4-f3b94bdbb1bc",
    "project_id" : "XXX",
    "region_id" : "global"
  } ]
}
```

Example Responses

Status code: 200

The global connection bandwidth has been bound to the instance.

```
{
  "request_id" : "1b90e4762e3090961a30ca3a712dc0ed",
  "gcbbandwidths" : [ {
    "resource_id" : "37289f8a-8fd2-4eff-a6c4-f3b94bdbb1bc",
    "resource_type" : "GEIP",
    "project_id" : "XXX",
    "region_id" : "global",
    "result" : "success",
    "message" : ""
  } ]
}
```

Status Codes

Status Code	Description
200	The global connection bandwidth has been bound to the instance.

Error Codes

See [Error Codes](#).

4.6.7 Unbinding a Global Connection Bandwidth from an Instance

Function

This API is used to unbind a global connection bandwidth from an instance.

URI

POST /v3/{domain_id}/gcb/gcbbandwidths/{id}/disassociate-instance

Table 4-268 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.
id	Yes	String	Instance ID.

Request Parameters

Table 4-269 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Table 4-270 Request body parameters

Parameter	Mandatory	Type	Description
gcbandwidths	Yes	Array of DisassociateGlobalConnectionBandwidthInstanceRequestInfo objects	Detailed information about the instance that the global connection bandwidth is unbound from.

Table 4-271 DisassociateGlobalConnectionBandwidthInstanceRequestInfo

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Instance ID. The ID can contain 1 to 36 characters, including letters, digits, underscores (_), and hyphens (-).
resource_type	Yes	String	Instance type.
region_id	No	String	Region where the instance is located. If this parameter is left blank, the default value is global .
project_id	Yes	String	Project ID of the region where the instance is located.

Response Parameters

Status code: 200

Table 4-272 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
gcbandwidths	Array of DisassociateGlobalConnectionBandwidthInstanceResponseInfo objects	Response to the operation for unbinding a global connection bandwidth from an instance.

Table 4-273 DisassociateGlobalConnectionBandwidthInstanceResponseInfo

Parameter	Type	Description
resource_id	String	Instance ID. The ID can contain 1 to 36 characters, including letters, digits, underscores (_), and hyphens (-).
resource_type	String	Instance type.
region_id	String	Region where the instance is located. If this parameter is left blank, the default value is global .
project_id	String	Project ID of the region where the instance is located.
result	String	Unbinding operation result. • success: The operation is successful. • fail: The operation failed.
message	String	Error information when the unbinding operation fails.

Example Requests

Unbinding a global connection bandwidth from an instance

```
POST https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths/{id}/disassociate-instance
```

```
{
  "gcbbandwidths" : [ {
    "resource_type" : "GEIP",
    "resource_id" : "37289f8a-8fd2-4eff-a6c4-f3b94bdbb1bc",
    "project_id" : "XXX",
    "region_id" : "global"
  } ]
}
```

Example Responses

Status code: 200

The global connection bandwidth has been unbound from the instance.

```
{
  "request_id" : "1b90e4762e3090961a30ca3a712dc0ed",
  "gcbbandwidths" : [ {
    "resource_id" : "37289f8a-8fd2-4eff-a6c4-f3b94bdbb1bc",
    "resource_type" : "GEIP",
    "project_id" : "XXX",
    "region_id" : "global",
    "result" : "success",
    "message" : ""
  } ]
}
```

Status Codes

Status Code	Description
200	The global connection bandwidth has been unbound from the instance.

Error Codes

See [Error Codes](#).

4.6.8 Querying the List of Global Connection Bandwidths That Meet the Binding Conditions

Function

This API is used to query the list of global connection bandwidths that meet the binding conditions.

Parameters **marker** and **limit** are used for pagination query. The two parameters take effect only when they are used together.

URI

GET /v3/{domain_id}/gcb/gcbbandwidths/support-bindings

Table 4-274 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-275 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000

Parameter	Mandatory	Type	Description
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
enterprise_project_id	No	Array of strings	Enterprise project IDs.
local_area	No	String	Local access point. • If the bandwidth type is set to region, all multi-city bandwidths that meet the filtering criteria are returned. This field is not matched for filtering. • For other types, this field is used to match local_area of the backbone bandwidth. Additional filtering criteria: The optimal backbone bandwidth type is selected based on local_area and remote_area for filtering. Restrictions: local_area and remote_area can or cannot be left blank at the same time, and their site types must be the same.

Parameter	Mandatory	Type	Description
remote_area	No	String	Remote access point. • If the bandwidth type is set to region, all multi-city bandwidths that meet the filtering criteria are returned. This field is not matched for filtering. • For other types, this field is used to match remote_area of the backbone bandwidth. Additional filtering criteria: The optimal backbone bandwidth type is selected based on local_area and remote_area for filtering. Restrictions: local_area and remote_area can or cannot be left blank at the same time, and their site types must be the same.
binding_service	No	String	Instance type used for listing global connection bandwidths. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network

Request Parameters

Table 4-276 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-277 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
globalconnection_bandwidths	Array of GlobalConnectionBandwidth objects	Response body for querying the global connection bandwidth list.

Table 4-278 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-279 GlobalConnectionBandwidth

Parameter	Type	Description
id	String	Instance ID.
name	String	Instance name.
description	String	Resource description. Angle brackets (<>) are not allowed.
domain_id	String	ID of the account that the instance belongs to.
bordercross	Boolean	Whether the global connection bandwidth is used for cross-border communications (between the Chinese mainland and a country/region outside the Chinese mainland). • True: The global connection is used for cross-border communications. • False: The global connection is not used for non-cross-border communications.

Parameter	Type	Description
type	String	Type of a global connection bandwidth. • TrsArea: cross-geographic-region bandwidth • Area: geographic-region bandwidth • SubArea: region bandwidth • Region: multi-city bandwidth
binding_service	String	Instance type. • Cloud Connect: cloud connection • GEIP: global EIP • GCN: central network • GSN: site network • ALL: all instance types
enterprise_project_id	String	ID of the enterprise project that the resource belongs to.
charge_mode	String	Billing option. By default, billing by bandwidth capacity is enabled. Standard 95th percentile bandwidth billing is controlled using a whitelist. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
size	Integer	The capacity of a global connection bandwidth, in Mbit/s. Value range: 2 Mbit/s to 300 Mbit/s
sla_level	String	Class of a global connection bandwidth. There are three classes: platinum, gold, and silver. The default class is gold. Other options are controlled by whitelists. • Pt: Platinum • Au: Gold • Ag: Silver
local_area	String	Name of a local access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.

Parameter	Type	Description
remote_area	String	Name of a remote access point. The x-language parameter in the header is used to control the language. The default language is English. zh-cn indicates Chinese.
local_site_code	String	Code of the local access point.
remote_site_code	String	Code of s remote access point.
admin_state	String	Global connection bandwidth status. • NORMAL: The bandwidth is normal. • FREEZED: The bandwidth is frozen.
frozen	Boolean	Whether a global connection bandwidth is frozen. • true: The bandwidth is frozen. • false: The bandwidth is not frozen.
spec_code_id	String	UUID of a line specification code.
tags	Array of Tag objects	Resource tags.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
enable_share	Boolean	Whether a global connection bandwidth can be used by multiple instances. • true: The bandwidth can be used by multiple instances. • false: The bandwidth cannot be used by multiple instances.
instances	Array of GlobalConnectionBandwidthAssociatedInstance objects	The list of instances that the global connection bandwidth is bound to.

Table 4-280 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Table 4-281 GlobalConnectionBandwidthAssociatedInstance

Parameter	Type	Description
id	String	Bound instance ID.
type	String	Bound instance type.
region_id	String	Region of the bound instance. The default value is global for global services.
project_id	String	Project ID of the bound instance.

Example Requests

Querying the list of global connection bandwidths that meet the binding conditions

```
GET https://{cc_endpoint}/v3/{domain_id}/gcb/gcbbandwidths/support-bindings?  
binding_service=CC&local_area=site-def&remote_area=site-abc
```

Example Responses

Status code: 200

The global connection bandwidth list has been queried.

```
{  
  "request_id": "61126320a1802d5c6444f9d2d76526c2",  
  "globalconnection_bandwidths": [ {  
    "id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",  
    "name": "name",  
    "description": "description",  
    "domain_id": "521bb3d98bed4c6c9ee8669bd0620f76",  
    "bordercross": false,  
    "type": "Region",  
    "binding_service": "CC",  
    "enterprise_project_id": "0c478f9e-73a4-4c45-b9bc-b2c3bfc0d4c0",  
    "charge_mode": "bwd",  
    "size": 100,  
    "sla_level": "Au",  
    "local_site_code": "site-def",  
  } ]  
}
```

```
"remote_site_code" : "site-abc",
"frozen" : false,
"spec_code_id" : "",
"tags" : [ ],
"created_at" : "2024-01-24T08:26:41.914Z",
"updated_at" : "2024-01-24T08:26:41.914Z",
"enable_share" : false,
"instances" : [ ]
} ],
"page_info" : {
  "next_marker" : "XXX",
  "previous_marker" : "XXX",
  "current_count" : 1
}
}
```

Status Codes

Status Code	Description
200	The global connection bandwidth list has been queried.

Error Codes

See [Error Codes](#).

4.6.9 Querying the Tenant Configuration of a Global Connection Bandwidth

Function

This API is used to query the tenant configuration of a global connection bandwidth.

URI

GET /v3/{domain_id}/gcb/configs

Table 4-282 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Request Parameters

Table 4-283 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200**Table 4-284** Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
configs	ListGlobalConnectionBandwidthConfigs object	Dynamic configuration items for purchasing a global connection bandwidth.

Table 4-285 ListGlobalConnectionBandwidthConfigs

Parameter	Type	Description
size_range	Array of GlobalConnectionBandwidthSizeRange objects	Capacity of global connection bandwidths by billing option.
charge_mode	Array of strings	List of supported billing options.
services	Array of strings	Instance type.
gcb_type	Array of strings	Bandwidth type.
ratio_95peak_plus	Integer	Percentage of the minimum bandwidth in enhanced 95th percentile bandwidth billing.
ratio_95peak_guar	Integer	Percentage of the minimum bandwidth in standard 95th percentile bandwidth billing.
crossborder	Boolean	Whether a cross-border permit is approved.
quotas	Array of GlobalConnectionBandwidthQuotas objects	Quota information.

Parameter	Type	Description
sla_level	Array of strings	Line grade.
bind_limit	Integer	Maximum number of instances that are allowed to use a shared bandwidth.
enable_area_bandwidth	Boolean	Whether to enable the geographic region bandwidth.
enable_change_95	Boolean	Whether standard 95th percentile bandwidth billing can be changed to billing by bandwidth capacity.
enable_spec_code	Boolean	Whether multiple line specifications are supported.

Table 4-286 GlobalConnectionBandwidthSizeRange

Parameter	Type	Description
type	String	Billing option of a global connection bandwidth. Value options: • bwd: billing by bandwidth capacity • 95: standard 95th percentile bandwidth billing • 95avr: average daily 95th percentile bandwidth
min	Integer	Minimum global connection bandwidth, in Mbit/s.
max	Integer	Maximum global connection bandwidth, in Mbit/s.

Table 4-287 GlobalConnectionBandwidthQuotas

Parameter	Type	Description
quota	Integer	Quotas.
used	Integer	Used quotas.
type	String	Quota type. • gcb.size: global connection bandwidth capacity • gcb.count: number of global connection bandwidths

Example Requests

Querying the tenant configuration of a global connection bandwidth

```
GET https://{cc_endpoint}/v3/{domain_id}/gcb/configs
```

Example Responses

Status code: 200

The tenant configuration of the global connection bandwidth has been queried.

```
{
  "request_id" : "61126320a1802d5c6444f9d2d76526c2",
  "configs" : {
    "size_range" : [ {
      "min" : 2,
      "max" : 300,
      "type" : "bwd"
    } ],
    "charge_mode" : [ "bwd", 95, "95avr" ],
    "services" : [ "GEIP", "CC", "GCN", "GSN" ],
    "gcb_type" : [ "Region", "SubArea", "Area", "TrsArea" ],
    "ratio_95peak_guar" : 0,
    "crossborder" : false,
    "quotas" : [ {
      "quota" : 99999999,
      "used" : 3451,
      "type" : "gcb.size"
    }, {
      "quota" : 10000,
      "used" : 16,
      "type" : "gcb.count"
    } ],
    "bind_limit" : 200,
    "sla_level" : [ "Pt", "Au", "Ag" ]
  }
}
```

Status Codes

Status Code	Description
200	The tenant configuration of the global connection bandwidth has been queried.

Error Codes

See [Error Codes](#).

4.6.10 Querying the Line Specification List

Function

This API is used to query the line specification list. Fields in the response body of this API are controlled using a whitelist. They are left blank by default.

Parameters **marker** and **limit** are used for pagination query. The two parameters take effect only when they are used together.

URI

GET /v3/{domain_id}/gcb/spec-codes

Table 4-288 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-289 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
local_area	No	String	Local access point code included in the line specification.
remote_area	No	String	Remote access point code included in the line specification.

Parameter	Mandatory	Type	Description
level	No	Array of strings	Bandwidth class. • Pt: Platinum • Au: Gold • Ag: Silver

Request Parameters

Table 4-290 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-291 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
spec_codes	Array of GlobalConnectio nBandwidthSpec Code objects	Response body for querying the line specification list.

Table 4-292 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-293 GlobalConnectionBandwidthSpecCode

Parameter	Type	Description
id	String	Instance ID.
local_area	String	Local access point. This parameter is used together with remote_area to describe the applicability of a global connection bandwidth. The value can contain 1 to 64 characters, including digits, letters, underscores (_), hyphens (-), and periods (.). The site code is obtained through API calls. If the bandwidth type is Region, this parameter is optional. For other types, this parameter is mandatory.
remote_area	String	Remote access point. This parameter is used together with local_area to describe the applicability of a global connection bandwidth. The value can contain 1 to 64 characters, including digits, letters, underscores (_), hyphens (-), and periods (.). The site code is obtained through API calls. If the bandwidth type is Region, this parameter is optional. For other types, this parameter is mandatory.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
name_zh	String	Line specification in Chinese.
name_en	String	Line specification in English.
level	String	Line grade. ● Pt: Platinum ● Au: Gold ● Ag: Silver
sku	String	Product code of specific global connection bandwidth line specifications.

Parameter	Type	Description
size	Integer	Minimum bandwidth for sale, in Mbit/s.

Example Requests

Querying the line specification list

GET https://{cc_endpoint}/v3/{domain_id}/gcb/spec-codes

Example Responses

Status code: 200

The line specification list has been queried.

```
{
  "request_id": "61126320a1802d5c6444f9d2d76526c2",
  "spec_codes": [ {
    "id": "5c2d5343-cde2-4a41-83ae-56b7f44d73b5",
    "name_zh": "DirectionalBandwidth",
    "name_en": "DirectionalBandwidth",
    "local_area": "site-abc",
    "remote_area": "site-def",
    "level": "Ag",
    "sku": "abc_def_ext_ag",
    "size": 2,
    "created_at": "2024-01-24T08:26:41.914Z",
    "updated_at": "2024-01-24T08:26:41.914Z"
  } ],
  "page_info": {
    "next_marker": "XXX",
    "previous_marker": "XXX",
    "current_count": 1
  }
}
```

Status Codes

Status Code	Description
200	The line specification list has been queried.

Error Codes

See [Error Codes](#).

4.6.11 Querying the Site List

Function

This API is used to query the site list.

Parameters **marker** and **limit** are used for pagination query. The two parameters take effect only when they are used together.

URI

GET /v3/{domain_id}/gcb/sites

Table 4-294 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-295 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
name_en	No	String	User-defined site information in English.
name_cn	No	String	User-defined site information in Chinese.
site_code	No	String	Site code.

Parameter	Mandatory	Type	Description
site_type	No	String	Site type. • Area: a geographic region site • SubArea: a region site • Region: a multi-city site

Request Parameters

Table 4-296 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-297 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
site_infos	Array of GlobalConnectio nBandwidthSites objects	Response body for querying the site list.

Table 4-298 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-299 GlobalConnectionBandwidthSites

Parameter	Type	Description
id	String	Instance ID.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
name_en	String	User-defined site name in English. Value range: 1 to 255 characters
name_cn	String	User-defined site name in English. Value range: 1 to 64 characters
site_code	String	Site code in the format of <area_code>[-<subarea_code>[-<region_code>]]. Value range: 1 to 64 characters
site_type	String	Site type that corresponds to the site code. One segment of code a site in a geographic region, two segments of code indicate a site in a region, and three segments of code indicate a multi-city site. • Area: a geographic region site • SubArea: a region site • Region: a multi-city site
service_list	String	List of services supported at the site. Multiple services are separated by commas (,). Value range: 0 to 255 characters
group_list	Array of SiteGroupReferenceInfo objects	Data model for association between site groups and external systems.
region_id	String	ID of a standard Huawei Cloud region. This parameter is mandatory only when the site is inherited from a Huawei Cloud region. Value range: 0 to 64 characters

Parameter	Type	Description
public_border_group	String	Whether the site is a central site or an edge site. center indicates a central site. Value range: 0 to 255 characters

Table 4-300 SiteGroupReferenceInfo

Parameter	Type	Description
id	String	Instance ID.
description	String	Resource description. Angle brackets (<>) are not allowed.
name_en	String	User-defined site group name in English. Value range: 1 to 255 characters
name_cn	String	User-defined site group name in Chinese. Value range: 1 to 64 characters

Example Requests

Querying the site list

```
GET https://{cc_endpoint}/v3/{domain_id}/gcb/sites
```

Example Responses

Status code: 200

The site list has been queried.

```
{
  "request_id": "61126320a1802d5c6444f9d2d76526c2",
  "site_infos": [ {
    "id": "5c2d5343-cde2-4a41-83ae-56b7f44d73b5",
    "description": "description",
    "name_cn": "Site abc",
    "name_en": "site-abc",
    "site_code": "site-abc",
    "site_type": "Region",
    "service_list": "CC,GEIP",
    "region_id": "region-abc",
    "public_border_group": "center",
    "group_list": [ {
      "id": "a3bad420-33b8-4e26-9e9b-bdf67aa8e72b",
      "description": "description"
    } ],
    "created_at": "2024-01-24T08:26:41.914Z",
    "updated_at": "2024-01-24T08:26:41.914Z"
  } ],
  "page_info": {
```

```
"next_marker" : "XXX",  
"previous_marker" : "XXX",  
"current_count" : 1  
}  
}
```

Status Codes

Status Code	Description
200	The site list has been queried.

Error Codes

See [Error Codes](#).

4.6.12 Querying the Line Grade List

Function

This API is used to query the line grade list.

Parameters **marker** and **limit** are used for pagination query. The two parameters take effect only when they are used together.

URI

GET /v3/{domain_id}/gcb/line-levels

Table 4-301 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Account ID.

Table 4-302 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records returned on each page. Value range: 1-1000

Parameter	Mandatory	Type	Description
marker	No	String	Pagination query information. You can obtain the marker values from the response of the last API call. You can enter the marker value of the previous page or the next page. If you enter the marker value of the previous page, the previous page will be queried. If you enter the marker value of the next page, the next page will be queried. During pagination query, the query criteria, including the filters, sorting criteria, and the limit value, cannot be modified.
id	No	Array of arrays	Resource ID. Multiple IDs can be queried.
local_area	No	String	Local access point code included in the line specification.
remote_area	No	String	Remote access point code included in the line specification.
levels	No	Array of strings	Bandwidth class. ● Pt: Platinum ● Ag: Silver

Request Parameters

Table 4-303 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token.

Response Parameters

Status code: 200

Table 4-304 Response body parameters

Parameter	Type	Description
request_id	String	Request ID.
page_info	PageInfo object	Pagination query information.
line_levels	Array of GlobalConnectionBandwidthLineLevel objects	Response body for querying the line grade list.

Table 4-305 PageInfo

Parameter	Type	Description
next_marker	String	Backward pagination identifier.
previous_marker	String	Forward pagination identifier.
current_count	Integer	Number of the resources in the current list.

Table 4-306 GlobalConnectionBandwidthLineLevel

Parameter	Type	Description
id	String	Instance ID.
description	String	Resource description. Angle brackets (<>) are not allowed.
created_at	String	Time when the resource was created. The UTC time is in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
updated_at	String	Time when the resource was updated. The UTC time must be in the <i>yyyy-MM-ddTHH:mm:ss</i> format.
local_area	String	Local access point.
remote_area	String	Remote access point.
levels	Array of strings	Line grade. There are three options: platinum, gold, and silver.

Example Requests

Querying the line grade list

```
GET https://{cc_endpoint}/v3/{domain_id}/gcb/line-levels
```


Example Responses

Status code: 200

The line grade list has been queried.

```
{
  "request_id" : "61126320a1802d5c6444f9d2d76526c2",
  "line_levels" : [ {
    "id" : "5c2d5343-cde2-4a41-83ae-56b7f44d73b5",
    "description" : "description",
    "local_area" : "site-abc",
    "remote_area" : "site-def",
    "levels" : [ "Pt", "Ag" ],
    "created_at" : "2024-01-24T08:26:41.914Z",
    "updated_at" : "2024-01-24T08:26:41.914Z"
  } ],
  "page_info" : {
    "next_marker" : "XXX",
    "previous_marker" : "XXX",
    "current_count" : 1
  }
}
```

Status Codes

Status Code	Description
200	The line grade list has been queried.

Error Codes

See [Error Codes](#).

4.7 Global Connection Bandwidth Tag Management

4.7.1 Querying a Global Connection Bandwidth Tag in an Account

Function

This API is used to query a global connection bandwidth tag in an account.

URI

GET /v3/gcb/{resource_id}/tags

Table 4-307 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique identifier of a resource.

Request Parameters

Table 4-308 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Response Parameters

Status code: 200

Table 4-309 Response body parameters

Parameter	Type	Description
tags	Array of Tag objects	Tag list.
request_id	String	Request ID.

Table 4-310 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Example Requests

Querying a global connection bandwidth tag in an account

```
GET https://{cc_endpoint}/v3/gcb/{resource_id}/tags
```

Example Responses

Status code: 200

The global connection bandwidth tag has been queried.

```
{  
  "tags" : [ {
```

```
{
  "key": "DEV",
  "value": "DEV1"
},
"request_id": "d6bf8eeb1f2b6e503e88f3dc3024c7e7"
}
```

Status Codes

Status Code	Description
200	The global connection bandwidth tag has been queried.

Error Codes

See [Error Codes](#).

4.7.2 Adding a Tag to a Global Connection Bandwidth

Function

This API is used to add a tag to a global connection bandwidth.

URI

POST /v3/gcb/{resource_id}/tags

Table 4-311 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique identifier of a resource.

Request Parameters

Table 4-312 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Table 4-313 Request body parameters

Parameter	Mandatory	Type	Description
tag	Yes	RequiredTag object	Resource tag, which is a key-value pair.

Table 4-314 RequiredTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key.
value	Yes	String	Tag value.

Response Parameters

Status code: 204

The global connection bandwidth tag has been added.

None

Example Requests

Adding a tag to a global connection bandwidth

POST https://{cc_endpoint}/v3/gcb/{resource_id}/tags

```
{
  "tag": {
    "key": "DEV",
    "value": "DEV1"
  }
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The global connection bandwidth tag has been added.

Error Codes

See [Error Codes](#).

4.7.3 Deleting a Tag from a Global Connection Bandwidth

Function

This API is used to delete a tag from a global connection bandwidth.

URI

DELETE /v3/gcb/{resource_id}/tags/{tag_key}

Table 4-315 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique identifier of a resource.
tag_key	Yes	String	Key of the tag to be deleted.

Request Parameters

Table 4-316 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Response Parameters

Status code: 204

The global connection bandwidth tag has been deleted.

None

Example Requests

Deleting a tag from a global connection bandwidth

```
DELETE https://{cc_endpoint}/v3/gcb/{resource_id}/tags/{tag_key}
```

Example Responses

None

Status Codes

Status Code	Description
204	The global connection bandwidth tag has been deleted.

Error Codes

See [Error Codes](#).

4.7.4 Adding Tags to a Global Connection Bandwidth

Function

This API is used to add tags to a global connection bandwidth.

URI

POST /v3/gcb/{resource_id}/tags/create

Table 4-317 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique identifier of a resource.

Request Parameters

Table 4-318 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Table 4-319 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of RequiredTag objects	Resource tags to be added or deleted.

Table 4-320 RequiredTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key.
value	Yes	String	Tag value.

Response Parameters

Status code: 204

The global connection bandwidth tags have been added.

None

Example Requests

Adding tags to a global connection bandwidth

```
POST https://{cc_endpoint}/v3/gcb/{resource_id}/tags/create
{
  "tags" : [ {
    "key" : "key1",
    "value" : "value1"
  }, {
    "key" : "key2",
    "value" : "value2"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The global connection bandwidth tags have been added.

Error Codes

See [Error Codes](#).

4.7.5 Deleting Tags from a Global Connection Bandwidth

Function

This API is used to delete tags from a global connection bandwidth.

URI

POST /v3/gcb/{resource_id}/tags/delete

Table 4-321 Path Parameters

Parameter	Mandatory	Type	Description
resource_id	Yes	String	Unique identifier of a resource.

Request Parameters

Table 4-322 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Table 4-323 Request body parameters

Parameter	Mandatory	Type	Description
tags	Yes	Array of RequiredTag objects	Resource tags to be added or deleted.

Table 4-324 RequiredTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key.
value	Yes	String	Tag value.

Response Parameters

Status code: 204

The global connection bandwidth tags have been deleted.

None

Example Requests

Deleting tags from a global connection bandwidth

```
DELETE https://{cc_endpoint}/v3/gcb/{resource_id}/tags/delete
```

```
{
  "tags" : [ {
    "key" : "key1",
    "value" : "value1"
  }, {
    "key" : "key2",
    "value" : "value2"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The global connection bandwidth tags have been deleted.

Error Codes

See [Error Codes](#).

4.7.6 Querying the Number of Global Connection Bandwidth Tags in an Account

Function

This API is used to query the number of global connection bandwidth tags in an account.

URI

POST /v3/gcb/resource-instances/count

Request Parameters

Table 4-325 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Table 4-326 Request body parameters

Parameter	Mandatory	Type	Description
request_id	No	String	Request ID.
without_any_tag	No	Boolean	If this parameter is set to true, all resources without tags are queried. In this case, the tags , tags_any , not_tags , and not_tags_any fields are not required.

Parameter	Mandatory	Type	Description
tags	No	Array of QueryTag objects	The instances to be queried contain tags listed in tags . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Each tag key and each value of the same tag key must be unique. The response returns resources containing all tags in this list. Keys in this list are in the AND relationship and values in each key-value structure are in the OR relationship. If no searching condition is specified, full data is returned.
tags_any	No	Array of QueryTag objects	The instances to be queried contain any tag listed in tags_any . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Each tag key and each value of the same tag key must be unique. The response returns resources containing any tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no searching condition is specified, full data is returned.

Parameter	Mandatory	Type	Description
not_tags	No	Array of QueryTag objects	The instances to be queried do not contain any tag listed in not_tags . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tags in this list. Keys in this list are in the AND relationship and values in each key-value structure are in the OR relationship. If no searching condition is specified, full data is returned.
not_tags_any	No	Array of QueryTag objects	The instances to be queried do not contain all tags listed in not_tags_any . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no filtering criteria is specified, full data is returned.
matches	No	Array of TmsMatch objects	Whether to match the tags: The tag key must be set to resource_name . If there is a tag value, fuzzy matching is used. If the tag value is an empty string, exact matching is used.

Table 4-327 QueryTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key.
values	Yes	Array of strings	List of tag values.

Table 4-328 TmsMatch

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key, Currently, only resource_name is supported. Other key values will be available later.
value	Yes	String	Tag value.

Response Parameters

Status code: 200

Table 4-329 Response body parameters

Parameter	Type	Description
total_count	Integer	Total records.
request_id	String	Request ID.

Example Requests

Querying the number of global connection bandwidth tags in an account

POST https://{cc_endpoint}/v3/gcb/resource-instances/count

```
{
  "not_tags": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ],
  "tags": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ],
  "tags_any": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ],
  "not_tags_any": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ]
}
```

```
    } ],  
    "matches" : [ {  
      "key" : "resource_name",  
      "value" : "resource1"  
    } ]  
  }  
}
```

Example Responses

Status code: 200

The number of global connection bandwidth tags in an account has been queried.

```
{  
  "request_id" : "e3371202-7e85-4c16-bb4b-4e3c092734f7",  
  "total_count" : 1  
}
```

Status Codes

Status Code	Description
200	The number of global connection bandwidth tags in an account has been queried.

Error Codes

See [Error Codes](#).

4.7.7 Querying the List of Global Connection Bandwidths in an Account

Function

This API is used to query the list of global connection bandwidths in an account.

URI

POST /v3/gcb/resource-instances/filter

Table 4-330 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records to be queried.
offset	No	Integer	Index offset.

Request Parameters

Table 4-331 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Table 4-332 Request body parameters

Parameter	Mandatory	Type	Description
request_id	No	String	Request ID.
without_any_tag	No	Boolean	If this parameter is set to true, all resources without tags are queried. In this case, the tags , tags_any , not_tags , and not_tags_any fields are not required.
tags	No	Array of QueryTag objects	The instances to be queried contain tags listed in tags . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Each tag key and each value of the same tag key must be unique. The response returns resources containing all tags in this list. Keys in this list are in the AND relationship and values in each key-value structure are in the OR relationship. If no searching condition is specified, full data is returned.

Parameter	Mandatory	Type	Description
tags_any	No	Array of QueryTag objects	The instances to be queried contain any tag listed in tags_any . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Each tag key and each value of the same tag key must be unique. The response returns resources containing any tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no searching condition is specified, full data is returned.
not_tags	No	Array of QueryTag objects	The instances to be queried do not contain any tag listed in not_tags . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tags in this list. Keys in this list are in the AND relationship and values in each key-value structure are in the OR relationship. If no searching condition is specified, full data is returned.

Parameter	Mandatory	Type	Description
not_tags_any	No	Array of QueryTag objects	The instances to be queried do not contain all tags listed in not_tags_any . Each instance to be queried contains a maximum of 20 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no filtering criteria is specified, full data is returned.
matches	No	Array of TmsMatch objects	Whether to match the tags: The tag key must be set to resource_name . If there is a tag value, fuzzy matching is used. If the tag value is an empty string, exact matching is used.

Table 4-333 QueryTag

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key.
values	Yes	Array of strings	List of tag values.

Table 4-334 TmsMatch

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key, Currently, only resource_name is supported. Other key values will be available later.
value	Yes	String	Tag value.

Response Parameters

Status code: 200

Table 4-335 Response body parameters

Parameter	Type	Description
resources	Array of TmsResource objects	Resource list.
total_count	Integer	Total records.
request_id	String	Request ID.

Table 4-336 TmsResource

Parameter	Type	Description
resource_id	String	Resource ID.
tags	Array of Tag objects	Tag list. If there is no tag added for the instance, an empty array is returned.
resource_name	String	Resource name. This parameter is an empty string by default if there is no resource name.

Table 4-337 Tag

Parameter	Type	Description
key	String	Tag key. The key can contain a maximum of 128 Unicode characters, including letters, digits, hyphens (-), and underscores (_).
value	String	Tag value. The value can contain a maximum of 255 Unicode characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Example Requests

Querying the list of global connection bandwidths in an account

```
POST https://{cc_endpoint}/v3/gcb/resource-instances/filter
```

```
{
```

```
"matches": [ {
  "key": "resource_name",
  "value": "resource1"
} ],
"not_tags": [ {
  "key": "key1",
  "values": [ "value1", "value2" ]
} ],
"tags": [ {
  "key": "key1",
  "values": [ "value1", "value2" ]
} ],
"tags_any": [ {
  "key": "key1",
  "values": [ "value1", "value2" ]
} ],
"not_tags_any": [ {
  "key": "key1",
  "values": [ "value1", "value2" ]
} ]
}
```

Example Responses

Status code: 200

The list of global connection bandwidths in an account has been queried.

```
{
  "resources": [ {
    "resource_id": "cb9d7ead-834a-4275-93e1-217f79df9dc1",
    "resource_name": "test",
    "tags": [ {
      "key": "key1",
      "value": "value1"
    } ]
  } ],
  "request_id": "e3371202-7e85-4c16-bb4b-4e3c092734f7",
  "total_count": 1
}
```

Status Codes

Status Code	Description
200	The list of global connection bandwidths in an account has been queried.

Error Codes

See [Error Codes](#).

4.7.8 Querying All Global Connection Bandwidth Tags in an Account

Function

This API is used to query all global connection bandwidth tags in an account.

URI

GET /v3/gcb/tags

Request Parameters

Table 4-338 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Response Parameters

Status code: 200

Table 4-339 Response body parameters

Parameter	Type	Description
tags	Array of TmsTagValues objects	Tag list.
total_count	Integer	Total records.
request_id	String	Request ID.

Table 4-340 TmsTagValues

Parameter	Type	Description
key	String	Tag key.
values	Array of strings	List of tag values.

Example Requests

Querying all global connection bandwidth tags in an account

```
GET https://{cc_endpoint}/v3/gcb/tags
```

Example Responses

Status code: 200

All global connection bandwidth tags in an account have been queried.

```
{  
  "tags": [{  
    "key": "key1",
```

```
"values" : [ "value1", "value2" ]
}],
"request_id" : "e3371202-7e85-4c16-bb4b-4e3c092734f7",
"total_count" : 1
}
```

Status Codes

Status Code	Description
200	All global connection bandwidth tags in an account have been queried.

Error Codes

See [Error Codes](#).

5 Appendix

5.1 Status Codes

- Normal

Table 5-1 Status codes for successful requests

Status Code	Returned Value	Description
200	OK	Normal response for the POST, GET, and PUT operations
201	Created	Normal response code for POST operations
204	No Content	Normal response code for DELETE operations

- Abnormal

Table 5-2 Status codes for failed requests

Status Code	Returned Value	Description
400	Bad Request	The server failed to process the request.
401	Unauthorized	You must enter a username and password to access the requested page.
403	Forbidden	You are forbidden to access the requested page.
404	Not Found	The server could not find the requested page.
405	Method Not Allowed	You are not allowed to use the method specified in the request.

Status Code	Returned Value	Description
406	Not Acceptable	The response generated by the server could not 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.
500	Internal Server Error	Failed to complete the request because of an internal 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 server has received an invalid response.
503	Service Unavailable	Failed to complete the request because the service is unavailable.
504	Gateway Timeout	A gateway timeout error occurred.

5.2 Error Codes

Status Code	Error Code	Error Message	Description	Handling Measure
400	CC.1001	The parameter is invalid.	Invalid parameter.	Enter a valid parameter.
400	CC.1006	Tenants are restricted and cannot operate APIs such as adding or modifying resources.	Your account is restricted.	Contact customer service.

Status Code	Error Code	Error Message	Description	Handling Measure
400	CC.1007	Internal Server Error.	An exception occurred when you are calling the API.	Contact customer service.
400	CC.1031	The cloud connection name already in use.	This cloud connection name already exists.	Change the name.
400	CC.1032	The cloud connection cannot be deleted because it has network instances.	This cloud connection has instances and cannot be deleted.	Remove the network instances from the cloud connection and then delete the cloud connection.
400	CC.1033	The cloud connection quota is insufficient.	Insufficient resource quotas.	Contact customer service.
400	CC.1041	Internal Server Error.	Unknown internal error.	Contact customer service.
400	CC.1042	The cloud connection instance is frozen.	The cloud connection is frozen.	Contact customer service.
400	CC.1043	ER type cloud connection is not supported.	Cloud connections cannot be used by enterprise routers.	Contact customer service.
400	CC.1050	Please wait for approval.	The cross-border permit is rejected or has not been approved.	Check the status of the cross-border permit.
400	CC.1051	No application for cross-border.	No application for the cross-border permit has been submitted.	Submit an application.

Status Code	Error Code	Error Message	Description	Handling Measure
400	CC.1052	The bandwidth package used in regionBandwidth cannot be deleted.	The bandwidth package is in use.	Delete the inter-region bandwidths and then delete the bandwidth package.
400	CC.1053	The bandwidth package name is already in use.	The bandwidth package name already exists.	Change the name.
400	CC.1054	The bandwidth package is frozen.	The bandwidth package is frozen.	Contact customer service.
400	CC.1055	The bandwidth package has been bound.	The bandwidth package has been bound to a cloud connection.	Check the bandwidth package.
400	CC.1056	Used RegionBandwidth is bigger than new BwpSize.	The bandwidth size cannot be smaller than the used bandwidth.	Check the used bandwidth in the bandwidth package.
400	CC.1057	The account does not have the permission to operation.	The IP address is not whitelisted.	Contact customer service.
400	CC.1061	Failed to delete the bandwidth package persistence.	Incorrect value returned for deleting the bandwidth package.	Contact customer service.

Status Code	Error Code	Error Message	Description	Handling Measure
400	CC.1062	Failed to update the bandwidth package persistence.	Incorrect value returned for updating the bandwidth package.	Contact customer service.
400	CC.1070	Same-direction instance is existed in cloud connection.	Bandwidth has been assigned for communications between regions.	Check the bandwidth assigned for the network instances in the regions.
400	CC.1071	Region Bandwidth Size is greater than bandwidth package size.	The inter-region bandwidth is greater than the bandwidth of the bandwidth package.	Decrease the inter-domain bandwidth or increase the bandwidth in the bandwidth package.
400	CC.1072	ER type cloud connection does not support 95-billed bandwidth packages.	95th percentile bandwidth packages for cloud connections used by enterprise routers.	Bind a bandwidth package of another type.
400	CC.1081	Internal Server Error.	Unknown internal error.	Contact customer service.
400	CC.1090	The instance has been used.	The network instance has been loaded to a cloud connection.	Load other network instances.

Status Code	Error Code	Error Message	Description	Handling Measure
400	CC.1091	The CIDR of a network instance under the same cloud connection is unique.	The CIDR block of network instances loaded to the same cloud connection must be unique.	Use different CIDR blocks.
400	CC.1092	The instance is not authorized.	The other user has not authorized this network instance for your use.	Check the network instance.
400	CC.1093	The network instance routing conflict.	The route has been used by other resources, such as a VPC peering connection or a VPN.	Check for route conflicts.
400	CC.1094	The ER instance status is not available.	The enterprise router status is abnormal.	Check the enterprise router status.
400	CC.1095	The ER attachment status not available.	The same attachment is created when the enterprise router is loaded.	Contact customer service.
400	CC.1096	The ER attachment quota is insufficient.	Insufficient attachment quota for loading the enterprise router to the cloud connection.	Contact customer service.

Status Code	Error Code	Error Message	Description	Handling Measure
400	CC.1110	Cross account authorization does not support cloud connection instances of this account.	Cross-account authorization is not allowed for cloud connections in the current account.	Check the cloud connections.
400	CC.1111	The network instance has been authorized.	The network instance has been authorized.	Check the authorized network instance.
400	CC.1171	Related bandwidth package is not available.	The bandwidth package is unavailable.	Contact customer service.
400	CC.1250	If an enterprise project has been enabled you need to specify the enterprise project when creating resources.	The enterprise project must be specified.	Specify an enterprise project when creating a resource.
400	CC.1269	To create a resource in an enterprise project, you need to apply it first.	The enterprise project must be specified.	Do not specify an enterprise project when creating a resource.
400	CC.1290	The cloud connection quota is insufficient.	Insufficient cloud connection quota.	Contact customer service.
400	CC.1291	No quotas for instance for this region.	The quota of network instances that can be loaded to the cloud connection in a single region is insufficient.	Contact customer service.

Status Code	Error Code	Error Message	Description	Handling Measure
400	CC.1292	No quotas for region for this cloudconnect.	The quota of regions where network instances can be loaded to the cloud connection is insufficient.	Contact customer service.
400	CC.1293	No quotas for route for this cloudconnect.	The quota of routes that can be configured for the cloud connection is insufficient.	Contact customer service.
401	CC.1003	The parameter of domainId is illegal.	Invalid account.	Ensure that the tenant ID is valid.
403	CC.1004	You do not have permission to operate.	Access denied.	Contact customer service.
404	CC.1002	The resource could not be found.	The resource was not found.	Enter correct resource information.
409	CC.1005	The resource already exists.	The resource already exists.	Do not create the resource repeatedly.
500	CC.1000	Internal Server Error.	Unknown internal error.	Contact customer service.
500	CC.1251	Internal Server Error.	Unknown internal error.	Contact customer service.

5.3 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 the 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 used to obtain a project ID is GET `https://{Endpoint}/v3/projects`. {Endpoint} is the IAM endpoint and 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": "65ewtrgaggshhk1223245sghjlse684b",
      "is_domain": false,
      "parent_id": "65ewtrgaggshhk1223245sghjlse684b",
      "name": "project_name",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4adasfjljaaaakla12334jklga9sasfg"
      },
      "id": "a4adasfjljaaaakla12334jklga9sasfg",
      "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.