

Content Delivery Network

API Reference

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1 Before You Start

1.1 Overview

Welcome to Content Delivery Network API Reference. Content Delivery Network (CDN) is an intelligent virtual network built on top of existing Internet infrastructure. Origin content is cached on nodes closer to end users so content can load faster. CDN speeds up site response and improves site availability, breaking through the bottlenecks caused by low bandwidth, heavy user access traffic, and uneven distribution of edge nodes.

This document describes how to use application programming interfaces (APIs) to perform operations on CDN, such as creating, deleting, and modifying an accelerated domain name.

If you plan to access CDN through an API, ensure that you are familiar with CDN concepts. For details, see [Service Overview](#).

1.2 API Calling

CDN supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see [Making an API Request](#).

1.3 Endpoints

An endpoint is the **request address** for calling an API. CDN is a global-level service and does not have endpoint requirements. [Table 1-1](#) lists CDN endpoints.

Table 1-1 CDN endpoints

Region Name	Region	Endpoint
ALL	All regions	cdn.myhuaweicloud.eu

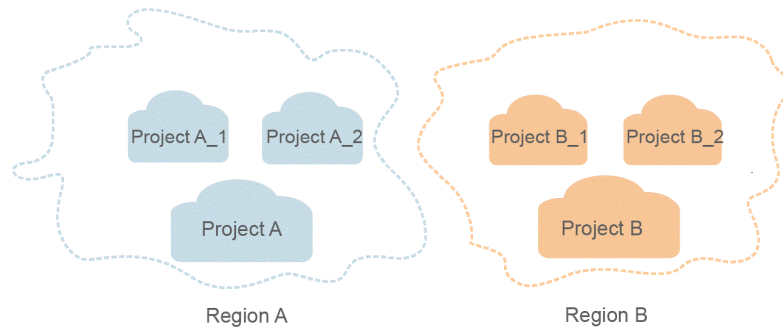
1.4 Constraints and Limitations

- The number of domain names that you can create and number of URLs to be refreshed and preheated are determined by your quota. For details, see [Service Quota](#).
- For more constraints, see API description.

1.5 Concepts

- Account
An account is created upon successful registration with Huawei Cloud. 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 and should not be used directly to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.
- IAM user
An IAM user is created using an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).
The account name, username, and password will be required for API authentication.
- 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.
- AZ
An availability zone (AZ) contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, computing, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.
- Project
Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each Huawei Cloud region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and purchase resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

Figure 1-1 Project isolating model



- **Enterprise Project**
Enterprise projects group and manage resources across regions. Resources in enterprise projects are logically isolated from each other. An enterprise project can contain resources of multiple regions, and resources can be added to or removed from enterprise projects.
For details about how to obtain enterprise project IDs and features, see [Enterprise Management Service User Guide](#).

2 Calling APIs

2.1 Making an API Request

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

Request URI

A request URI is in the following format:

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

Table 2-1 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. CDN is a global-level service and region selection is not required.
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.

 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 2-2 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 used to **obtain a user token**, the request method is **POST**. The request is as follows:

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
```

Request Header

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

Table 2-3 lists common request header fields.

Table 2-3 Common request header fields

Parameter	Description	Mandatory	Example
Host	Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of <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-based authentication.	code.test.com or code.test.com:443
Content-Type	Specifies the request body MIME type. You are advised to use the default value application/json . For APIs used to upload objects or images, the value can vary depending on the flow type.	Yes	application/json
Content-Length	Specifies the length of the request body. The unit is byte.	No	3495
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in Obtaining a Project ID . This parameter is mandatory for a request from a Dedicated Cloud (DeC) or multi-project user.	No This field is mandatory for requests that use AK/SK-based authentication in the DeC scenario or multi-project scenario.	e9993fc787d94b6c886cb aa340f9c0f4

Parameter	Description	Mandatory	Example
X-Auth-Token	Specifies a user token. It is a response to the API used to obtain a user token . This API is the only one that does not require authentication. After the request is processed, the value of X-Subject-Token in the header is the token value.	No This field is mandatory for token-based authentication.	The following is part of an example token: MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ

 **NOTE**

In addition to supporting token-based authentication, public cloud APIs also support authentication using access key ID/secret access key (AK/SK). During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request.

For more information, see **AK/SK-based Authentication** in [Authentication](#).

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

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
```

Request Body

This part is optional. The body of a request is often sent in a structured format as specified in the **Content-Type** header field. The request body transfers content except the request header. If the request body contains Chinese characters, convert the Chinese characters into the UTF-8 encoding format.

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

In the case of the API used to **obtain a user token**, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace **username**, **domainname** (account name), ********* (login password), and **XXXXXXXXXXXXXXXXXXXX** (project name) with the actual values. Obtain the project name from *Regions and Endpoints*.

 NOTE

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

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
```

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

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

2.2 Authentication

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

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair. AK/SK-based authentication is recommended because it is more secure than token-based authentication.

Token-based 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.

When calling the API to **obtain a user token**, you must set **auth.scope** in the request body to **domain**.

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

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

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

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

In AK/SK-based 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 used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

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

2.3 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](#).

If status code **201** is returned for calling the API used to [obtain a user token](#), the request is successful.

Response Header

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

Figure 2-1 shows the response header fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 2-1 Header fields of the response to the request for obtaining a user token

```
connection → keep-alive
content-type → application/json
date → Tue, 12 Feb 2019 06:52:13 GMT
server → Web Server
strict-transport-security → max-age=31536000; includeSubdomains;
transfer-encoding → chunked
via → proxy A
x-content-type-options → nosniff
x-download-options → noopen
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → MIIYXQYJKoZIhvcNAQcCoIIYJCCEoCAQExDTALBglghkgBQZMEAgEwgharBgkqhkiG9w0BBwGgghacBIIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjIwMTktMDItMTNUMC
fj3KJ56YgKnpVNRbW2eZ5eb78SZ0kqjACgklqO1wi4JlGzrpd18LGXK5bldfq4lqHCYb8P4NaY0NYejcAgzJVeFYtLWT1GSO0zxKZmlQHqJ82HBqHdgIZO9fuEbL5dMhdavj+33wEI
xHRC9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jagjFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==
x-xss-protection → 1; mode=block;
```

(Optional) Response Body

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

The following is a part of the response body for the API used to [obtain a user token](#). For the sake of space, only part of the content is displayed here.

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

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

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

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

3 API

3.1 Domain Name Operations

3.1.1 Creating a Domain Name

Function

This API is used to create a domain name.

URI

POST /v1.0/cdn/domains

Request Parameters

Table 3-1 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Table 3-2 Request body parameters

Parameter	Mandatory	Type	Description
domain	Yes	DomainBody object	Body for creating a domain name.

Table 3-3 DomainBody

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name. The domain name consists of one or more parts, representing domains at different levels. These parts, technically known as labels, are concatenated and delimited by periods (.). A label consists of case-insensitive letters, numbers, and hyphens (-). The domain name can contain up to 75 characters. Do not start or end a domain name with hyphens (-).
business_type	Yes	String	Service type. Possible values: web (website acceleration), download (download acceleration), and video (on-demand service acceleration).
sources	Yes	Array of Sources objects	Origin server settings.
service_area	Yes	String	Service area of the domain name. Possible values: europe (Europe) and outside_mainland_china (outside the Chinese mainland).
enterprise_project_id	No	String	Enterprise project to which the domain name is added. This parameter is valid only when the enterprise project function is enabled. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the API for listing enterprise projects of Enterprise Project Management Service (EPS).

Table 3-4 Sources

Parameter	Mandatory	Type	Description
origin_type	Yes	String	Origin server type. Possible values: ipaddr (IP address) and domain (domain name).
ip_or_domain	Yes	String	Non-intranet IP address or domain name of the origin server.
active_standby	Yes	Integer	Whether the origin server is primary or standby. Possible values: 1 (primary) and 0 (standby).

Response Parameters

Status code: 200

Table 3-5 Response body parameters

Parameter	Type	Description
domain	CreateDomainResponseBodyContent object	Response to the request for creating a domain name.

Table 3-6 CreateDomainResponseBodyContent

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type of the domain name. Possible values: <ul style="list-style-type: none"> • web: website acceleration. • download: file download acceleration. • video: on-demand service acceleration.
service_area	String	Service area of the domain name. Possible values: europe (Europe) and outside_mainland_china (outside the Chinese mainland).

Parameter	Type	Description
domain_status	String	Domain name status. Possible values: <ul style="list-style-type: none">● online: CDN has been enabled for this domain name.● offline: CDN has been disabled for this domain name.● configuring: The domain name configuration is in progress.● configure_failed: The configuration fails.● checking: The domain is being reviewed.● check_failed: The domain name fails the review.● deleting: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of Sources objects	Origin server details.
https_status	Integer	Whether HTTPS is enabled for acceleration.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: 0 (not banned) and 1 (banned).
locked	Integer	Whether the domain name is locked. Possible values: 0 (not locked) and 1 (locked).
range_status	String	Whether range-based retrieval is enabled. Possible values: off (disabled) and on (enabled).
follow_status	String	Status of 302 redirect. Possible values: off (disabled) and on (enabled).
origin_status	String	Origin pull status. off : disabled. on : enabled.

Table 3-7 Sources

Parameter	Type	Description
origin_type	String	Origin server type. Possible values: ipaddr (IP address) and domain (domain name).
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
active_standby	Integer	Whether the origin server is primary or standby. Possible values: 1 (primary) and 0 (standby).

Example Requests

POST https://cdn.myhuaweicloud.eu/v1.0/cdn/domains

```
{
  "domain" : {
    "domain_name" : "example1.example2.example3.com",
    "business_type" : "web",
    "sources" : [ {
      "ip_or_domain" : "example.origin.com",
      "origin_type" : "domain",
      "active_standby" : 1
    } ],
    "service_area" : "europe",
    "enterprise_project_id" : "0"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "domain" : {
    "sources" : {
      "ip_or_domain" : "example.origin.com",
      "origin_type" : "domain",
      "active_standby" : 1
    },
    "id" : "ff80*****07b",
    "domain_name" : "example11.example2.example3.com",
    "business_type" : "web",
    "service_area" : "europe",
    "cname" : "example1.example2.example3.com.c.example4.com",
    "domain_status" : "configuring",
    "https_status" : 0,
    "create_time" : 1513152634467,
    "modify_time" : 1513152634467,
    "disabled" : 0,
    "locked" : 0,
    "range_status" : "off",
    "follow_status" : "off",
    "origin_status" : "on"
  }
}
```

Status Codes

Status Code	Description
200	OK

3.1.2 Deleting a Domain Name

Function

This API is used to delete a domain name.

URI

DELETE /v1.0/cdn/domains/{domain_id}

Table 3-8 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Domain name ID.

Table 3-9 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	<p>ID of the enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API.</p> <p>Obtain the enterprise project ID by calling the API for listing enterprise projects of Enterprise Project Management Service (EPS).</p>

Request Parameters

Table 3-10 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-11 Response body parameters

Parameter	Type	Description
domain	DomainsWithPort object	Domain name details.

Table 3-12 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type. Possible values: web (website acceleration), download (download acceleration), and video (on-demand service acceleration).

Parameter	Type	Description
domain_status	String	Domain name status. Possible values: <ul style="list-style-type: none"> ● online: CDN has been enabled for this domain name. ● offline: CDN has been disabled for this domain name. ● configuring: The domain name configuration is in progress. ● configure_failed: The configuration fails. ● checking: The domain is being reviewed. ● check_failed: The domain name fails the review. ● deleting: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of SourceWithPort objects	Origin server settings.
https_status	Integer	Whether HTTPS is enabled for acceleration. 0 : HTTPS is disabled. 1 : HTTPS is enabled and the origin protocol is same as the user request. 2 : HTTPS is enabled and the origin protocol is HTTP. 3 : HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: 0 (not banned) and 1 (banned).
locked	Integer	Whether the domain name is locked. Possible values: 0 (not locked) and 1 (locked).
service_area	String	Area of the acceleration service provided by CDN, including europe (Europe) and outside_mainland_china (outside the Chinese mainland).
range_status	String	Status of range-based retrieval. Possible values: off (disabled) and on (enabled).
follow_status	String	Redirect retrieval status. Possible values: off (disabled) and on (enabled).

Parameter	Type	Description
origin_status	String	Origin pull status. off : disabled. on : enabled.
banned_reason	String	Reason for disabling the domain name. 1 : This domain name is banned because it contains inappropriate content. 2 : This domain name is banned because its MIIT license has expired. 3 : This domain name is banned after being attacked. 150 : This domain name is banned because it contains pornographic content. 151 : This domain name is banned because it contains sensitive political content. 152 : This domain name is banned because it contains violent content. 153 : This domain name is banned because it contains gambling content.
locked_reason	String	Reason for locking the domain name.

Table 3-13 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: ipaddr (IP address) and domain (domain name).
active_standby	Integer	Whether the origin server is primary or standby. Possible values: 1 (primary) and 0 (standby).
http_port	Integer	HTTP port. Default value: 80 .
https_port	Integer	HTTPS port. Default value: 443 .

Example Requests

```
DELETE https://cdn.myhuaweicloud.eu/v1.0/cdn/domains/ff80808*****07d?
enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "domain" : {
    "sources" : {
      "origin_type" : "domain",
```



```

"ip_or_domain" : "example.origin.com",
"active_standby" : 1,
"http_port" : 80,
"https_port" : 443
},
"cname" : "example1.example2.com.c.example3.com",
"id" : "ff80808*****07d",
"domain_name" : "example1.example2.com",
"business_type" : "web",
"service_area" : "europe",
"domain_status" : "deleting",
"https_status" : 2,
"create_time" : 1532405584521,
"modify_time" : 1532406543021,
"disabled" : 0,
"locked" : 0,
"range_status" : "off",
"follow_status" : "off",
"origin_status" : "on"
}
}

```

Status Codes

Status Code	Description
200	OK

3.1.3 Enabling CDN for a Domain Name

Function

This API is used to enable CDN for a domain name.

URI

PUT /v1.0/cdn/domains/{domain_id}/enable

Table 3-14 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Domain name ID.

Table 3-15 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the API for listing enterprise projects of Enterprise Project Management Service (EPS).

Request Parameters

Table 3-16 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-17 Response body parameters

Parameter	Type	Description
domain	DomainsWithPort object	Domain name details.

Table 3-18 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.

Parameter	Type	Description
domain_name	String	Domain name.
business_type	String	Service type. Possible values: web (website acceleration), download (download acceleration), and video (on-demand service acceleration).
domain_status	String	Domain name status. Possible values: <ul style="list-style-type: none"> • online: CDN has been enabled for this domain name. • offline: CDN has been disabled for this domain name. • configuring: The domain name configuration is in progress. • configure_failed: The configuration fails. • checking: The domain is being reviewed. • check_failed: The domain name fails the review. • deleting: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of SourceWithPort objects	Origin server settings.
https_status	Integer	Whether HTTPS is enabled for acceleration. 0 : HTTPS is disabled. 1 : HTTPS is enabled and the origin protocol is same as the user request. 2 : HTTPS is enabled and the origin protocol is HTTP. 3 : HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: 0 (not banned) and 1 (banned).
locked	Integer	Whether the domain name is locked. Possible values: 0 (not locked) and 1 (locked).

Parameter	Type	Description
service_area	String	Area of the acceleration service provided by CDN, including europe (Europe) and outside_mainland_china (outside the Chinese mainland).
range_status	String	Status of range-based retrieval. Possible values: off (disabled) and on (enabled).
follow_status	String	Redirect retrieval status. Possible values: off (disabled) and on (enabled).
origin_status	String	Origin pull status. off : disabled. on : enabled.
banned_reason	String	Reason for disabling the domain name. 1 : This domain name is banned because it contains inappropriate content. 2 : This domain name is banned because its MIIT license has expired. 3 : This domain name is banned after being attacked. 150 : This domain name is banned because it contains pornographic content. 151 : This domain name is banned because it contains sensitive political content. 152 : This domain name is banned because it contains violent content. 153 : This domain name is banned because it contains gambling content.
locked_reason	String	Reason for locking the domain name.

Table 3-19 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: ipaddr (IP address) and domain (domain name).
active_standby	Integer	Whether the origin server is primary or standby. Possible values: 1 (primary) and 0 (standby).
http_port	Integer	HTTP port. Default value: 80 .
https_port	Integer	HTTPS port. Default value: 443 .

Example Requests

```
PUT https://cdn.myhuaweicloud.eu/v1.0/cdn/domains/ff80*****c82722/enable?enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "domain": {
    "sources": {
      "origin_type": "domain",
      "ip_or_domain": "example.origin.com",
      "active_standby": 1,
      "http_port": 80,
      "https_port": 443
    },
    "cname": "www.example1.example2.0002.example3.com.c.example4.com",
    "id": "ff80808264c7*****fc82722",
    "domain_name": "www.example1.example2.0002.example3.com",
    "business_type": "web",
    "service_area": "europe",
    "domain_status": "configuring",
    "https_status": 0,
    "create_time": 1532403213673,
    "modify_time": 1532403782746,
    "disabled": 0,
    "locked": 0,
    "range_status": "off",
    "follow_status": "off",
    "origin_status": "on"
  }
}
```

Status Codes

Status Code	Description
200	OK

3.1.4 Disabling CDN for a Domain Name

Function

This API is used to disable CDN for a domain name.

URI

PUT /v1.0/cdn/domains/{domain_id}/disable

Table 3-20 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Domain name ID.

Table 3-21 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the API for listing enterprise projects of Enterprise Project Management Service (EPS).

Request Parameters

Table 3-22 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-23 Response body parameters

Parameter	Type	Description
domain	DomainsWithPort object	Domain name details.

Table 3-24 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type. Possible values: web (website acceleration), download (download acceleration), and video (on-demand service acceleration).
domain_status	String	Domain name status. Possible values: <ul style="list-style-type: none">● online: CDN has been enabled for this domain name.● offline: CDN has been disabled for this domain name.● configuring: The domain name configuration is in progress.● configure_failed: The configuration fails.● checking: The domain is being reviewed.● check_failed: The domain name fails the review.● deleting: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of SourceWithPort objects	Origin server settings.
https_status	Integer	Whether HTTPS is enabled for acceleration. 0 : HTTPS is disabled. 1 : HTTPS is enabled and the origin protocol is same as the user request. 2 : HTTPS is enabled and the origin protocol is HTTP. 3 : HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: 0 (not banned) and 1 (banned).
locked	Integer	Whether the domain name is locked. Possible values: 0 (not locked) and 1 (locked).

Parameter	Type	Description
service_area	String	Area of the acceleration service provided by CDN, including europe (Europe) and outside_mainland_china (outside the Chinese mainland).
range_status	String	Status of range-based retrieval. Possible values: off (disabled) and on (enabled).
follow_status	String	Redirect retrieval status. Possible values: off (disabled) and on (enabled).
origin_status	String	Origin pull status. off : disabled. on : enabled.
banned_reason	String	Reason for disabling the domain name. 1 : This domain name is banned because it contains inappropriate content. 2 : This domain name is banned because its MIIT license has expired. 3 : This domain name is banned after being attacked. 150 : This domain name is banned because it contains pornographic content. 151 : This domain name is banned because it contains sensitive political content. 152 : This domain name is banned because it contains violent content. 153 : This domain name is banned because it contains gambling content.
locked_reason	String	Reason for locking the domain name.

Table 3-25 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: ipaddr (IP address) and domain (domain name).
active_standby	Integer	Whether the origin server is primary or standby. Possible values: 1 (primary) and 0 (standby).
http_port	Integer	HTTP port. Default value: 80 .
https_port	Integer	HTTPS port. Default value: 443 .

Example Requests

```
PUT https://cdn.myhuaweicloud.eu/v1.0/cdn/domains/ff8080*****722/disable?enterprise_project_id=0
```


Example Responses

Status code: 200

OK

```
{
  "domain": {
    "sources": {
      "origin_type": "domain",
      "ip_or_domain": "example.origin.com",
      "active_standby": 1,
      "http_port": 80,
      "https_port": 443
    },
    "cname": "www.example1.example2.0002.example3.com.c.example4.com",
    "id": "ff8080*****722",
    "domain_name": "www.example1.example2.0002.example3.com",
    "business_type": "web",
    "service_area": "europe",
    "domain_status": "configuring",
    "https_status": 0,
    "create_time": 1532403213673,
    "modify_time": 1532403548714,
    "disabled": 0,
    "locked": 0,
    "range_status": "off",
    "follow_status": "off",
    "origin_status": "off"
  }
}
```

Status Codes

Status Code	Description
200	OK

3.1.5 Querying Domain Names

Function

This API is used to query domain names.

URI

GET /v1.0/cdn/domains

Table 3-26 Query Parameters

Parameter	Mandatory	Type	Description
domain_name	No	String	Acceleration domain name, which is matched in a fuzzy manner. The value contains 1 to 255 characters.

Parameter	Mandatory	Type	Description
business_type	No	String	Service type of the domain name. Possible values: <ul style="list-style-type: none"> • web: website acceleration. • download: file download acceleration. • video: on-demand service acceleration.
domain_statuses	No	String	Domain name status. Possible values: <ul style="list-style-type: none"> • online: CDN has been enabled for this domain name. • offline: CDN has been disabled for this domain name. • configuring: The domain name configuration is in progress. • configure_failed: The configuration fails. • checking: The domain is being reviewed. • check_failed: The domain name fails the review. • deleting: The domain name is being deleted.
service_area	No	String	Area of the acceleration service provided by CDN. Possible values: <ul style="list-style-type: none"> • europe: Europe. • outside_mainland_china: outside the Chinese mainland.
page_size	No	Integer	Number of domain names displayed per page. The value ranges from 1 to 10,000. The default value is 30 .
page_number	No	Integer	Number of the page to be queried, that is, the page from which the query starts. The value ranges from 1 to 65,535. If this parameter is not set, the default value 1 is used.

Parameter	Mandatory	Type	Description
exact_match	No	String	Exact match. on : enabled. off : disabled.
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the API for listing enterprise projects of Enterprise Project Management Service (EPS).

Request Parameters

Table 3-27 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-28 Response body parameters

Parameter	Type	Description
total	Integer	Total number of records.
domains	Array of Domains objects	Domain name details.

Table 3-29 Domains

Parameter	Type	Description
id	String	Domain name ID.
domain_name	String	Domain name.
business_type	String	Service type. Possible values: web (website acceleration), download (download acceleration), and video (on-demand service acceleration).
domain_status	String	Domain name status. Possible values: <ul style="list-style-type: none">● online: CDN has been enabled for this domain name.● offline: CDN has been disabled for this domain name.● configuring: The domain name configuration is in progress.● configure_failed: The configuration fails.● checking: The domain is being reviewed.● check_failed: The domain name fails the review.● deleting: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of Sources objects	Origin server settings.
https_status	Integer	Whether HTTPS is enabled for acceleration.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: 0 (not banned) and 1 (banned).
locked	Integer	Whether the domain name is locked. Possible values: 0 (not locked) and 1 (locked).
service_area	String	Area of the acceleration service provided by CDN, including europe (Europe) and outside_mainland_china (outside the Chinese mainland).
range_status	String	Whether range-based retrieval is enabled.

Parameter	Type	Description
follow_status	String	Whether redirect retrieval is enabled.
origin_status	String	Origin pull status. off : disabled. on : enabled.
banned_reason	String	Reason for disabling the domain name.
locked_reason	String	Reason for locking the domain name.
enterprise_project_id	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. If this parameter is not specified, the default project is queried. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the API for listing enterprise projects of Enterprise Project Management Service (EPS).

Table 3-30 Sources

Parameter	Type	Description
origin_type	String	Origin server type. Possible values: ipaddr (IP address) and domain (domain name).
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
active_standby	Integer	Whether the origin server is primary or standby. Possible values: 1 (primary) and 0 (standby).

Example Requests

```
GET https://cdn.myhuaweicloud.eu/v1.0/cdn/domains?
domain_name=www.example.com&page_size=10&page_number=1&enterprise_project_id=0
```

Example Responses

Status code: 200

Success response.

```
{
  "total" : 1,
  "domains" : [ {
    "sources" : [ {
      "origin_type" : "domain",
      "ip_or_domain" : "example.origin.com",
      "active_standby" : 1
    } ],
  } ],
}
```

```
"cname" : "www.example.com.c.test.com",  
"id" : "ab1234a*****g56",  
"domain_name" : "www.example.com",  
"business_type" : "web",  
"service_area" : "europe",  
"domain_status" : "online",  
"https_status" : 0,  
"create_time" : 1516861994806,  
"modify_time" : 1532405346365,  
"disabled" : 0,  
"locked" : 0,  
"range_status" : "off",  
"follow_status" : "off",  
"origin_status" : "on"  
} ]  
}
```

Status Codes

Status Code	Description
200	Success response.
400	Error response.

3.1.6 Querying a Domain Name

Function

This API is used to query details about a domain name.

URI

GET /v1.0/cdn/domains/{domain_id}/detail

Table 3-31 Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Domain name ID.

Table 3-32 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	<p>ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API.</p> <p>Obtain the enterprise project ID by calling the API for listing enterprise projects of Enterprise Project Management Service (EPS).</p>

Request Parameters

Table 3-33 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	<p>User token.</p> <p>It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).</p>

Response Parameters

Status code: 200

Table 3-34 Response body parameters

Parameter	Type	Description
domain	DomainsWithPort object	Domain name details.

Table 3-35 DomainsWithPort

Parameter	Type	Description
id	String	Domain name ID.

Parameter	Type	Description
domain_name	String	Domain name.
business_type	String	Service type. Possible values: web (website acceleration), download (download acceleration), and video (on-demand service acceleration).
domain_status	String	Domain name status. Possible values: <ul style="list-style-type: none"> • online: CDN has been enabled for this domain name. • offline: CDN has been disabled for this domain name. • configuring: The domain name configuration is in progress. • configure_failed: The configuration fails. • checking: The domain is being reviewed. • check_failed: The domain name fails the review. • deleting: The domain name is being deleted.
cname	String	CNAME record of the domain name.
sources	Array of SourceWithPort objects	Origin server settings.
https_status	Integer	Whether HTTPS is enabled for acceleration. 0 : HTTPS is disabled. 1 : HTTPS is enabled and the origin protocol is same as the user request. 2 : HTTPS is enabled and the origin protocol is HTTP. 3 : HTTPS is enabled and the origin protocol is HTTPS.
create_time	Long	Time when the domain name was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
modify_time	Long	Time when the domain name was modified. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
disabled	Integer	Whether the domain name is banned. Possible values: 0 (not banned) and 1 (banned).
locked	Integer	Whether the domain name is locked. Possible values: 0 (not locked) and 1 (locked).

Parameter	Type	Description
service_area	String	Area of the acceleration service provided by CDN, including europe (Europe) and outside_mainland_china (outside the Chinese mainland).
range_status	String	Status of range-based retrieval. Possible values: off (disabled) and on (enabled).
follow_status	String	Redirect retrieval status. Possible values: off (disabled) and on (enabled).
origin_status	String	Origin pull status. off : disabled. on : enabled.
banned_reason	String	Reason for disabling the domain name. 1 : This domain name is banned because it contains inappropriate content. 2 : This domain name is banned because its MIIT license has expired. 3 : This domain name is banned after being attacked. 150 : This domain name is banned because it contains pornographic content. 151 : This domain name is banned because it contains sensitive political content. 152 : This domain name is banned because it contains violent content. 153 : This domain name is banned because it contains gambling content.
locked_reason	String	Reason for locking the domain name.

Table 3-36 SourceWithPort

Parameter	Type	Description
domain_id	String	Domain name ID.
ip_or_domain	String	Non-intranet IP address or domain name of the origin server.
origin_type	String	Origin server type. Possible values: ipaddr (IP address) and domain (domain name).
active_standby	Integer	Whether the origin server is primary or standby. Possible values: 1 (primary) and 0 (standby).
http_port	Integer	HTTP port. Default value: 80 .
https_port	Integer	HTTPS port. Default value: 443 .

Example Requests

```
GET https://cdn.myhuaweicloud.eu/v1.0/cdn/domains/12a*****345d671/detail?enterprise_project_id=1
```

Example Responses

Status code: 200

OK

```
{
  "domain": {
    "sources": {
      "origin_type": "domain",
      "ip_or_domain": "example.origin.com",
      "active_standby": 1,
      "http_port": 80,
      "https_port": 443
    },
    "cname": "www.example1.com.c.example2.com",
    "id": "12a*****345d671",
    "domain_name": "www.example1.com",
    "business_type": "web",
    "service_area": "europe",
    "domain_status": "online",
    "https_status": 0,
    "create_time": 1516861994806,
    "modify_time": 1532405346365,
    "disabled": 0,
    "locked": 0,
    "range_status": "off",
    "follow_status": "off",
    "origin_status": "on"
  }
}
```

Status Codes

Status Code	Description
200	OK

3.2 Domain Name Configuration

3.2.1 Modifying the Full Domain Configuration

Function

This API is used to modify the domain name configuration. You can modify the service type, IPv6, origin protocol, origin URL rewriting, advanced origin, range request, redirect from origin, ETag verification, origin response timeout, origin request header, HTTPS, TLS version, force redirect, HSTS, HTTP/2, OCSP stapling, QUIC, cache rule, status code cache TTL, referer validation, IP ACL, User-Agent ACL, token authentication, remote authentication, IP access frequency, HTTP header, custom error page, smart compression, request rate limiting, video seek, origin SNI, and browser cache TTL settings.

URI

PUT /v1.1/cdn/configuration/domains/{domain_name}/configs

Table 3-37 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name.

Table 3-38 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	<p>ID of the enterprise project that the domain name to be modified belongs to. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects.</p> <p>NOTE This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).</p>

Request Parameters

Table 3-39 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 3-40 Request body parameters

Parameter	Mandatory	Type	Description
configs	No	Configs object	Configuration items.

Table 3-41 Configs

Parameter	Mandatory	Type	Description
business_type	No	String	Service type: <ul style="list-style-type: none"> • web: website acceleration. • download: file download acceleration. • video: on-demand service acceleration.
origin_request_header	No	Array of OriginRequestHeader objects	Origin request header settings. Original settings of all headers will be overwritten. When using this API, upload information of all headers.
http_response_header	No	Array of HttpResponseHeader objects	HTTP header settings. Original settings of all headers will be overwritten. When using this API, upload information of all headers.
url_auth	No	UrlAuth object	Token authentication.
https	No	HttpPutBody object	Certificate settings.
sources	No	Array of SourcesConfig objects	Origin server settings.
origin_protocol	No	String	Origin protocol. Possible values: follow (same as user requests), http (HTTP, default value), and https (HTTPS).
origin_follow302_status	No	String	Redirect from origin. Possible values: on (enabled) and off (disabled).
cache_rules	No	Array of CacheRules objects	Cache rules.
ip_filter	No	IpFilter object	IP address blacklist or whitelist.
referrer	No	RefererConfig object	Referer validation.
force_redirect	No	ForceRedirectConfig object	Force redirect.

Parameter	Mandatory	Type	Description
compress	No	Compress object	Smart compression.
ipv6_accelerate	No	Integer	IPv6 settings. Possible values: 1 (enabled) and 0 (disabled).
error_code_cache	No	Array of ErrorCodeCache objects	Status code cache TTL.
origin_range_status	No	String	Whether range requests are enabled during origin pull. Possible values: on (enabled) and off (disabled). NOTE To enable range requests during origin pull, the origin server must support range requests, that is, requests with the Range field in the headers. Otherwise, origin pull may fail.
user_agent_filter	No	UserAgentFilter object	User-Agent blacklist or whitelist settings.
origin_request_url_rewrite	No	Array of OriginRequestUrlRewrite objects	Rules of rewriting origin request URLs. Up to 20 rules can be configured.
flexible_origin	No	Array of flexibleOrigins objects	Advanced origins. Up to 20 rules can be configured.
slice_etag_status	No	String	Whether ETag is verified during origin pull. Possible values: on (yes) and off (no).
origin_receive_timeout	No	Integer	Origin response timeout. The value ranges from 5 to 60, in seconds.
remote_auth	No	commonRemoteAuth object	Remote authentication settings.

Parameter	Mandatory	Type	Description
video_seek	No	videoSeek object	Video seek settings. NOTE 1. You have configured a cache rule for FLV and MP4 files and ignored all URL parameters in user requests. 2. Time-based FLV seek is valid only when video seek is enabled.
request_limit_rules	No	Array of RequestLimitRules objects	Request rate limiting.
ip_frequency_limit	No	IpFrequencyLimit object	IP access frequency limit. You can limit the number of times that a single IP address accesses a single PoP per second to defend against CC attacks and malicious theft.
hsts	No	Hsts object	HSTS settings. HSTS forces clients (such as browsers) to use HTTPS to access your server, improving access security.
quic	No	Quic object	QUIC protocol.
error_code_direct_rules	No	Array of ErrorCodeReDirectRules objects	Custom error page.
sni	No	Sni object	Origin SNI.
browser_cache_rules	No	Array of BrowserCacheRules objects	Browser cache TTL.

Table 3-42 OriginRequestHeader

Parameter	Mandatory	Type	Description
name	Yes	String	Name of an origin request header. The value contains 1 to 64 characters, including letters, digits, and hyphens (-). It must start with a letter.

Parameter	Mandatory	Type	Description
value	No	String	Value of the origin request header. This parameter is optional for the delete operation. The value contains 1 to 1,000 characters. Variables, for example, <i>\$client_ip</i> and <i>\$remote_port</i> , are not supported.
action	Yes	String	Operation type of the origin request header. Possible values: delete and set . A request header field can only be deleted or set. set : If the header does not exist in the original origin pull request, add the header before setting its value.

Table 3-43 HttpResponseHeader

Parameter	Mandatory	Type	Description
name	Yes	String	HTTP response header. Possible values: Content-Disposition , Content-Language , Access-Control-Allow-Origin , Access-Control-Allow-Methods , Access-Control-Max-Age , Access-Control-Expose-Headers , or custom headers. The value contains 1 to 100 characters, including letters, digits, and hyphens (-). It must start with a letter.
value	No	String	Value of the HTTP response header. This parameter is optional for the delete operation. The value of a custom HTTP response header contains 1 to 1,000 characters, including letters, digits, and special characters such as <code>._*#!&+ ^~"/:;,=@?<></code> .
action	Yes	String	Operation type of the HTTP response header. The value can be set or delete .

Table 3-44 UrlAuth

Parameter	Mandatory	Type	Description
status	Yes	String	Whether token authentication is enabled. Possible values: on (enabled) and off (disabled).
type	No	String	Signing method. type_a : method A. type_b : method B. type_c1 : method C1. type_c2 : method C2.
expire_time	No	Integer	Expiration time. The value ranges from 0 to 31,536,000, in seconds.
sign_method	No	String	Encryption algorithm. The value can be md5 or sha256 .
match_type	No	String	Authentication scope. Currently, the value can only be all (all files are authenticated).
inherit_config	No	InheritConfig object	Authentication inheritance. Add authentication parameters to TS and MP4 files under M3U8/MPD index files, so that the files can be played after authentication succeeds.
key	No	String	Signing key. The value contains 6 to 32 characters, including letters and digits.
backup_key	No	String	Secondary key. The value contains 6 to 32 characters, including letters and digits.
sign_arg	No	String	Authentication parameter. The value contains 1 to 100 characters, including letters, digits, and underscores (_). The value cannot start with a digit. This parameter is mandatory for signing method A or C2. Default value: auth_key .

Parameter	Mandatory	Type	Description
time_format	No	String	Time format. dec : decimal. hex : hexadecimal. Method A supports only the decimal format. Method B supports only the decimal format. Method C1 supports only the hexadecimal format. Method C2 supports both decimal and hexadecimal formats.

Table 3-45 InheritConfig

Parameter	Mandatory	Type	Description
status	Yes	String	Whether authentication inheritance is enabled. The options are on (enabled) and off (disabled).
inherit_type	No	String	Authentication inheritance settings. The value can be m3u8 , mpd , or m3u8,mpd . NOTE This parameter is mandatory when authentication inheritance is enabled.
inherit_time_type	No	String	Time type of the files that inherits authentication settings. sys_time : current system time. parent_url_time : time when a user accesses the M3U8/MPD file. NOTE This parameter is mandatory when authentication inheritance is enabled.

Table 3-46 HttpPutBody

Parameter	Mandatory	Type	Description
https_status	No	String	Whether HTTPS is enabled. Possible values: on (enabled) and off (disabled).
certificate_type	No	String	Certificate type. server indicates an international certificate.

Parameter	Mandatory	Type	Description
certificate_source	No	Integer	Certificate source. 0 indicates your own certificate. NOTE This parameter is mandatory when a certificate is configured.
certificate_name	No	String	Certificate name, which contains 3 to 64 characters. NOTE This parameter is mandatory when a certificate is configured.
certificate_value	No	String	Content of the certificate used by the HTTPS protocol. This parameter is mandatory when a certificate is configured. NOTE The value must be PEM encoded.
private_key	No	String	Private key used by the HTTPS protocol. This parameter is mandatory when a certificate is configured. NOTE The value must be PEM encoded.
http2_status	No	String	Whether HTTP/2 is used. Possible values: on (yes) and off (no). NOTE Default value: off . When https_status is set to off , this parameter does not take effect.
tls_version	No	String	Transport Layer Security (TLS). Currently, TLS 1.0, TLS 1.1, TLS 1.2, and TLS 1.3 are supported. By default, TLS 1.1, TLS 1.2, and TLS 1.3 are enabled. At least one version must be enabled. NOTE 1. A single version or consecutive versions must be enabled. For example, you cannot enable TLS 1.0 and TLS 1.2 but disable TLS 1.1. 2. Versions are separated by commas (,), for example, TLSv1.1,TLSv1.2 . 3. An international certificate has been enabled before you configure TLS versions.

Parameter	Mandatory	Type	Description
ocsp_stapling_status	No	String	Whether Online Certificate Status Protocol (OCSP) stapling is enabled. Possible values: on (yes) and off (no).

Table 3-47 SourcesConfig

Parameter	Mandatory	Type	Description
origin_type	Yes	String	Origin server type. <ul style="list-style-type: none"> • ipaddr: IP address. • domain: origin server domain name. • obs_bucket: OBS bucket domain name. • third_bucket: third-party bucket.
origin_addr	Yes	String	IP address or domain name of the origin server.
priority	Yes	Integer	Origin server priority. Possible values: 70 (primary) and 30 (standby).
weight	No	Integer	Weight. The value ranges from 1 to 100.
obs_web_hosting_status	No	String	Whether static website hosting is enabled for the OBS bucket. This parameter is mandatory when the origin server type is obs_bucket . Possible values: off (disabled) and on (enabled).
http_port	No	Integer	HTTP port. Default value: 80 . The port number ranges from 1 to 65535.
https_port	No	Integer	HTTPS port. Default value: 443 . The port number ranges from 1 to 65535.
host_name	No	String	Host header. The default value is the acceleration domain name.

Parameter	Mandatory	Type	Description
obs_bucket_type	No	String	<p>OBS bucket type. This parameter is mandatory when the origin server type is OBS bucket. Default value: public.</p> <ul style="list-style-type: none"> • private: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • public: public bucket (Any user can read objects in the bucket.)
bucket_access_key	No	String	<p>Access key of the third-party bucket.</p> <p>NOTE This parameter is mandatory when the origin server is a third-party bucket.</p>
bucket_secret_key	No	String	<p>Secret key of the third-party bucket.</p> <p>NOTE This parameter is mandatory when the origin server is a third-party bucket.</p>
bucket_region	No	String	<p>Region of the third-party bucket.</p> <p>NOTE This parameter is mandatory when the origin server is a third-party bucket.</p>
bucket_name	No	String	<p>Name of the third-party bucket.</p> <p>NOTE This parameter is mandatory when the origin server is a third-party bucket.</p>

Table 3-48 CacheRules

Parameter	Mandatory	Type	Description
match_type	No	String	<p>Match type.</p> <ul style="list-style-type: none"> ● all: all files. ● file_extension: file name extension. ● catalog: directory. ● full_path: full path. ● home_page: homepage. <p>NOTE This parameter is optional when a single cache rule is configured. The default value is all. This parameter is mandatory when multiple cache rules are configured.</p>
match_value	No	String	<p>Cache content based on the cache rule. If match_type is set to all, this parameter is left blank. If match_type is set to file_extension, the value of this parameter is a list of file types. A file type starts with a period (.). File types are separated by commas (,), for example, .jpg,.zip,.exe. Up to 20 file types are supported. If match_type is set to catalog, the value of this parameter is a list of directories. A directory starts with a slash (/). Directories are separated by commas (,), for example, /test/folder01,/test/folder02. Up to 20 directories are supported. If match_type is set to full_path, the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, /test/index.html or /test/*.jpg. If match_type is set to home_page, this parameter is left blank.</p>

Parameter	Mandatory	Type	Description
ttl	No	Integer	Cache TTL. The maximum TTL is 365 days. NOTE The default value is 0 .
ttl_unit	Yes	String	Unit of the cache TTL. Possible values: s (second), m (minute), h (hour), and d (day).
priority	Yes	Integer	Priority of the cache rule. The default value is 1 and the value ranges from 1 to 100. A larger value indicates a higher priority. The priority of a rule must be unique.
follow_origin	No	String	Origin cache control status. Possible values: on (enabled) and off (disabled). > The default value is off .
url_parameter_type	No	String	URL parameters. <ul style="list-style-type: none"> • del_params: Ignore specific URL parameters. • reserve_params: Retain specific URL parameters. • ignore_url_params: Ignore all URL parameters. • full_url: Retain all URL parameters. NOTE The default value is full_url .
url_parameter_value	No	String	URL parameters, which are separated by commas (,). Up to 10 parameters can be set. > This parameter is mandatory when url_parameter_type is set to del_params or reserve_params .

Table 3-49 IpFilter

Parameter	Mandatory	Type	Description
type	Yes	String	IP ACL type. off : Disable the IP ACL. black : IP address blacklist. white : IP address whitelist.
value	No	String	IP address blacklist or whitelist. This parameter is optional when type is set to off . A list contains up to 500 IP addresses and IP address segments, which are separated by commas (.). IPv6 addresses are supported. Duplicate IP addresses and IP address segments will be removed. Addresses with wildcard characters are not supported, for example, 192.168.0.*.

Table 3-50 RefererConfig

Parameter	Mandatory	Type	Description
type	Yes	String	Referer validation type. off : Disable referer validation. black : referer blacklist. white : referer whitelist.
value	No	String	Domain names or IP addresses, which are separated by commas (.). Wildcard domain names and domain names with port numbers are supported. Enter up to 400 domain names and IP addresses. The port number ranges from 1 to 65535.

Parameter	Mandatory	Type	Description
include_empty	No	Boolean	Whether blank referers are included. A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. Possible values: true (included) and false (default value, excluded).

Table 3-51 ForceRedirectConfig

Parameter	Mandatory	Type	Description
status	Yes	String	Whether force redirect is enabled. Possible values: on (enabled) and off (disabled).
type	No	String	Force redirect type. Possible values: http (force redirect to HTTP) and https (force redirect to HTTPS).
redirect_code	No	Integer	Redirect status code 301 or 302.

Table 3-52 Compress

Parameter	Mandatory	Type	Description
status	Yes	String	Whether smart compression is enabled. Possible values: on (enabled) and off (disabled).
type	No	String	Smart compression type. Possible values: gzip (gzip) and br (Brotli).

Parameter	Mandatory	Type	Description
file_type	No	String	Formats of files to be compressed. Enter up to 200 characters. Multiple formats are separated by commas (,). Each format contains up to 50 characters. The default value is .js,.html,.css,.xml,.json,.shtml,.htm when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.

Table 3-53 ErrorCodeCache

Parameter	Mandatory	Type	Description
code	No	Integer	Supported error codes, including 301, 302, 400, 403, 404, 405, 414, 500, 501, 502, 503, and 504.
ttd	No	Integer	Error code cache TTL, in seconds. The value ranges from 0 to 31,536,000 (365 days each year by default). NOTE The cache TTL of 3XX status codes ranges from 0s to 20s.

Table 3-54 UserAgentFilter

Parameter	Mandatory	Type	Description
type	Yes	String	User-Agent blacklist or whitelist type. off : The User-Agent blacklist/whitelist is disabled. black : User-Agent blacklist. white : User-Agent whitelist.

Parameter	Mandatory	Type	Description
value	No	String	User-Agent blacklist or whitelist. This parameter is optional when type is set to off . Up to 10 rules can be configured. A single rule contains up to 100 characters. Rules are separated by commas (,).
ua_list	No	Array of strings	User-Agent blacklist or whitelist. This parameter is optional when type is set to off . Up to 10 rules can be configured. A rule contains up to 100 characters. When ua_list and value are both set, ua_list is used.

Table 3-55 OriginRequestUrlRewrite

Parameter	Mandatory	Type	Description
priority	Yes	Integer	Priority of a URL rewrite rule. The priority of a rule is mandatory and must be unique. The rule with the highest priority will be used for matching first. Enter an integer ranging from 1 to 100. A greater number indicates a higher priority.
match_type	Yes	String	Match type. all : all files. file_path : URI path. wildcard full_path
source_url	No	String	URI to be rewritten. A URI starts with a slash (/) and does not contain http:// , https:// , or the domain name. The value contains up to 512 characters. Wildcards (*) are supported, for example, / test/*/*.mp4 . If the match mode is set to all files, parameters cannot be configured.

Parameter	Mandatory	Type	Description
target_url	Yes	String	A URI starts with a slash (/) and does not contain http:// , https:// , or the domain name. The value contains up to 256 characters. The <i>n</i> th wildcard (*) field can be substituted with \$ <i>n</i> , where <i>n</i> = 1, 2, 3..., for example, / newtest/\$1/\$2.jpg .

Table 3-56 flexibleOrigins

Parameter	Mandatory	Type	Description
match_type	Yes	String	URI match mode. The value can be file_extension or file_path .
match_pattern	Yes	String	file_extension : All file types are supported. A file type starts with a period (.). File types are separated by semicolons (;). Up to 20 file types are supported. file_path : A path starts with a slash (/). Paths are separated by semicolons (;). Up to 20 paths are supported.
priority	Yes	Integer	The priority value ranges from 1 to 100. The larger the value, the higher the priority.
back_sources	Yes	Array of backSources objects	Origin information. NOTE Only one origin server is allowed in each directory.

Table 3-57 backSources

Parameter	Mandatory	Type	Description
sources_type	Yes	String	Origin server type. Possible values: ipaddr (IP address), domain (domain name), and obs_bucket (OBS bucket).
ip_or_domain	Yes	String	IP address or domain name of the origin server.

Parameter	Mandatory	Type	Description
obs_bucket_type	No	String	OBS bucket type. <ul style="list-style-type: none"> • private: private bucket. • public: public bucket.
http_port	No	Integer	HTTP port. Value range: 1 to 65535. Default value: 80 .
https_port	No	Integer	HTTPS port. Value range: 1 to 65535. Default value: 443 .

Table 3-58 commonRemoteAuth

Parameter	Mandatory	Type	Description
remote_authentication	Yes	String	Whether remote authentication is enabled. Possible values: on (enabled) and off (disabled).
remote_auth_rules	Yes	RemoteAuthRule object	Remote authentication settings.

Table 3-59 RemoteAuthRule

Parameter	Mandatory	Type	Description
auth_server	Yes	String	Address of a reachable authentication server. The URL must contain http:// or https://. The address cannot be a local address such as localhost or 127.0.0.1. The address cannot be an acceleration domain name added on CDN.
request_method	Yes	String	Request method supported by the authentication server. GET, POST, and HEAD are supported.

Parameter	Mandatory	Type	Description
file_type_setting	Yes	String	all : Requests for all files are authenticated. specific_file : Requests for files of specific types are authenticated. Example: jpg MP4 File types are case insensitive. For example, jpg and JPG indicate the same file type. File types are separated by vertical bars ().
specified_file_type	No	String	The value contains up to 512 characters. This parameter is mandatory when file_type_setting is set to specific_file . In other cases, this parameter is left blank. The value contains letters and digits. File types are separated by vertical bars (), for example, jpg mp4 . This field is verified only when it is mandatory.
reserve_args_setting	Yes	String	Parameters that need to be authenticated in user requests. The options are reserve_all_args (retain all URL parameters), reserve_specific_args (retain specified URL parameters), and ignore_all_args (ignore all URL parameters).
reserve_args	No	String	This parameter is mandatory when reserve_args_setting is set to reserve_specific_args . In other cases, this parameter is left blank. Parameters are separated by vertical bars (), for example, key1 key2 .
add_custom_args_rules	No	Array of customArgs objects	Token authentication parameters.

Parameter	Mandatory	Type	Description
reserve_headers_setting	Yes	String	Headers to be authenticated in user requests. The options are reserve_all_headers (retain all request headers), reserve_specific_headers (retain specified request headers), and ignore_all_headers (ignore all request headers).
add_custom_headers_rules	No	Array of customArgs objects	Request header authentication parameters.
auth_success_status	Yes	String	Status code returned by the remote authentication server to CDN PoPs when authentication is successful. Value range: 2xx and 3xx.
auth_failed_status	Yes	String	Status code returned by the remote authentication server to CDN PoPs when authentication fails. Value range: 4xx and 5xx.
response_status	Yes	String	Status code returned by CDN PoPs to users when authentication fails. Value range: 2xx, 3xx, 4xx, and 5xx.
timeout	Yes	Integer	Authentication timeout interval, that is, the interval from the time when a CDN PoP forwards an authentication request to the time when the CDN PoP receives the result returned by the remote authentication server. Enter 0 or a value ranging from 50 to 3,000. The unit is millisecond.

Parameter	Mandatory	Type	Description
timeout_action	Yes	String	Method used by CDN PoPs to process a user request after authentication times out. pass: The user request is allowed and the corresponding resource is returned after the authentication times out. forbid: The user request is rejected after the authentication times out and the configured status code is returned to the user.
reserve_headers	No	String	This parameter is mandatory when reserve_headers_setting is set to reserve_specific_headers . In other cases, this parameter is left blank. Request headers are separated by vertical bars (), for example, key1 key2 .

Table 3-60 customArgs

Parameter	Mandatory	Type	Description
type	Yes	String	Parameter type. Possible values: custom_var (custom) and nginx_preset_var (preset).
key	Yes	String	Parameter, which containing 1 to 256 characters. Only letters, digits, and the following special characters are allowed: <code>._-*/% +^@?=#</code>

Parameter	Mandatory	Type	Description
value	Yes	String	When type is set to custom_var , the value contains 1 to 256 characters. Only letters, digits, and the following special characters are allowed: <code>._-*/#% +^@?= When type is set to nginx_preset_var, the value can only be set to \$http_host, \$http_user_agent, \$http_referer, \$http_x_forwarded_for, \$http_content_type, \$remote_addr, \$scheme, \$server_protocol, \$request_uri, \$uri, \$args, and \$request_method.</code>

Table 3-61 videoSeek

Parameter	Mandatory	Type	Description
enable_video_seek	Yes	Boolean	Video seek status. true : enabled; false : disabled. NOTE When this parameter is set to false , the API for querying domain name configuration does not return the video seek setting information.
enable_flv_by_time_seek	No	Boolean	Time-based FLV seek status. true : enabled; false : disabled.
start_parameter	No	String	Video playback start parameter in user request URLs. The value contains up to 64 characters. Only letters, digits, and underscores (<code>_</code>) are allowed.
end_parameter	No	String	Video playback end parameter in user request URLs. The value contains up to 64 characters. Only letters, digits, and underscores (<code>_</code>) are allowed.

Table 3-62 RequestLimitRules

Parameter	Mandatory	Type	Description
status	No	String	Status. The value can only be on . NOTE If request_limit_rules is left empty, request rate limiting is disabled. This parameter is used in earlier APIs and will be deprecated.
priority	Yes	Integer	Priority. A larger value indicates a higher priority. The value ranges from 1 to 100. The value must be unique.
match_type	Yes	String	Match type. The options are all (all files) and catalog (directory).
match_value	No	String	Match type value. When match_type is set to all , leave this parameter empty. When match_type is set to catalog , the value is a directory address starting with a slash (/), for example, /test . NOTE This parameter is mandatory when match_type is set to catalog .
type	Yes	String	Rate limit mode. Currently, only rate limit by traffic is supported. This parameter can only be set to size .
limit_rate_after	Yes	Long	Rate limiting condition. type=size,limit_rate_after=50 indicates that the speed is limited to the value of limit_rate_after after 50 bytes are transmitted. Unit: byte. Value range: 0 to 1,073,741,824.
limit_rate_value	Yes	Integer	Rate limit, in bit/s. The value ranges from 0 to 104,857,600.

Table 3-63 IpFrequencyLimit

Parameter	Mandatory	Type	Description
status	Yes	String	Status. The options are on (enabled) and off (disabled).
qps	No	Integer	Access threshold, in times/second. The value ranges from 1 to 100,000. NOTE This parameter is mandatory when IP access frequency is enabled.

Table 3-64 Hsts

Parameter	Mandatory	Type	Description
status	Yes	String	Status. The options are on (enabled) and off (disabled).
max_age	No	Integer	Expiration time, that is, the TTL of the response header Strict-Transport-Security on the client. Unit: second. Value range: 0 to 63,072,000. NOTE This parameter is mandatory when status is set to on .
include_subdomains	No	String	Whether subdomain names are included. The options are on (included) and off (not included). NOTE This parameter is mandatory when status is set to on .

Table 3-65 Quic

Parameter	Mandatory	Type	Description
status	Yes	String	Status. The options are on (enabled) and off (disabled).

Table 3-66 ErrorCodeRedirectRules

Parameter	Mandatory	Type	Description
error_code	Yes	Integer	Redirect error code. Currently, the following status codes are supported: 4xx: 400, 403, 404, 405, 414, 416, and 451 5xx: 500, 501, 502, 503, and 504
target_code	Yes	Integer	Redirect status code. The value can be 301 or 302 .
target_link	Yes	String	Destination URL.

Table 3-67 Sni

Parameter	Mandatory	Type	Description
status	Yes	String	Origin SNI status. Possible values: on (enabled) and off (disabled).
server_name	No	String	Origin domain name to be accessed when CDN pulls origin content, for example, test.example.com . NOTE <ol style="list-style-type: none"> 1. This parameter is mandatory when origin SNI is enabled. 2. Wildcard domain names are not supported. Only letters, digits, hyphens (-), and periods (.) are supported.

Table 3-68 BrowserCacheRules

Parameter	Mandatory	Type	Description
condition	Yes	BrowserCacheRulesCondition object	Match condition.

Parameter	Mandatory	Type	Description
cache_type	Yes	String	Cache effective type. <ul style="list-style-type: none"> • follow_origin: The cache policy of the origin server, that is, the setting of the Cache-Control header, is used. • tll: The TTL set in this rule is used. • never: Browsers do not cache the resources.
tll	No	Integer	Cache TTL. The maximum TTL is 365 days. NOTE This parameter is mandatory when the cache effective type is set to tll .
tll_unit	No	String	Unit of the cache TTL. Possible values: s (second), m (minute), h (hour), and d (day). NOTE This parameter is mandatory when the cache effective type is set to tll .

Table 3-69 BrowserCacheRulesCondition

Parameter	Mandatory	Type	Description
match_type	Yes	String	Match type. <ul style="list-style-type: none"> • all: all files. • file_extension: file name extension. • catalog: directory. • full_path: full path. • home_page: homepage.

Parameter	Mandatory	Type	Description
match_value	No	String	Cache content based on the cache rule. If match_type is set to all , this parameter is left blank. If match_type is set to file_extension , the value of this parameter is a list of file types. A file type starts with a period (.). File types are separated by commas (,), for example, .jpg,.zip,.exe . Up to 20 file types are supported. If match_type is set to catalog , the value of this parameter is a list of directories. A directory starts with a slash (/). Directories are separated by commas (,), for example, /test/folder01,/test/folder02 . Up to 20 directories are supported. If match_type is set to full_path , the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*), but cannot end with a wildcard (*). A wildcard (*) can only follow the last slash (/). A cache rule can contain only one full path, for example, /test/index.html or /test/*.jpg . If match_type is set to home_page , this parameter is left blank.
priority	Yes	Integer	Priority of the rule. Enter an integer ranging from 1 to 100. A greater number indicates a higher priority. Each rule must have a unique priority.

Response Parameters

None

Example Requests

```
PUT https://cdn.myhuaweicloud.eu/v1.1/cdn/configuration/domains/www.example.com/configs
```

```
{
  "configs" : {
    "origin_request_header" : [ {
```

```
"name" : "test-name",
"value" : "test_value",
"action" : "set"
}],
"http_response_header" : [ {
  "name" : "test-name",
  "value" : "test_value",
  "action" : "set"
}],
"url_auth" : {
  "status" : "off"
},
"compress" : {
  "status" : "off"
},
"force_redirect" : {
  "status" : "on",
  "type" : "http",
  "redirect_code" : 301
},
"origin_protocol" : "follow",
"referer" : {
  "type" : "black",
  "value" : "192.168.0.0",
  "include_empty" : true
},
"ip_filter" : {
  "type" : "black",
  "value" : "192.168.0.0"
},
"origin_follow302_status" : "off",
"cache_rules" : [ {
  "match_type" : "file_extension",
  "match_value" : ".zip",
  "ttl" : 0,
  "ttl_unit" : "h",
  "priority" : 10,
  "follow_origin" : "off",
  "url_parameter_type" : "del_params",
  "url_parameter_value" : "test_param"
}],
"sources" : [ {
  "origin_addr" : "www.example.com",
  "origin_type" : "domain",
  "priority" : 70,
  "http_port" : 80,
  "https_port" : 443
}],
"flexible_origin" : [ {
  "priority" : 1,
  "match_type" : "file_path",
  "match_pattern" : "/test",
  "back_sources" : [ {
    "sources_type" : "domain",
    "ip_or_domain" : "www.back.example.com"
  } ]
}],
"slice_etag_status" : "off",
"ipv6_accelerate" : 1,
"origin_receive_timeout" : 30,
"remote_auth" : {
  "remote_authentication" : "on",
  "remote_auth_rules" : {
    "auth_server" : "https://192.168.0.0",
    "request_method" : "GET",
    "file_type_setting" : "all",
    "reserve_args_setting" : "reserve_all_args",
    "reserve_headers_setting" : "reserve_specific_headers",
    "auth_success_status" : "200",
```

```
"auth_failed_status" : "403",
"response_status" : "403",
"timeout" : 500,
"timeout_action" : "pass",
"reserve_headers" : "sf",
"add_custom_args_rules" : [ {
  "type" : "nginx_preset_var",
  "key" : "http_host",
  "value" : "$http_host"
}],
"add_custom_headers_rules" : [ {
  "type" : "nginx_preset_var",
  "key" : "http_host",
  "value" : "$http_host"
}]
}
},
"video_seek" : {
  "enable_video_seek" : true,
  "enable_flv_by_time_seek" : true,
  "start_parameter" : "start",
  "end_parameter" : "end"
},
"request_limit_rules" : [ {
  "status" : "on",
  "match_type" : "catalog",
  "match_value" : "/test",
  "type" : "size",
  "limit_rate_after" : 1024,
  "limit_rate_value" : 50,
  "priority" : 88
}],
"sni" : {
  "status" : "on",
  "server_name" : "test.example.com"
},
"browser_cache_rules" : [ {
  "condition" : {
    "match_type" : "full_path",
    "match_value" : "/test/*.jpg",
    "priority" : 10
  },
  "cache_type" : "ttl",
  "ttl" : 20,
  "ttl_unit" : "h"
}]
}
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Request succeeded.

3.2.2 Querying Domain Name Configuration

Function

This API is used to query the domain name configuration. You can query the service type, service area, IPv6, origin protocol, origin URL rewriting, advanced origin, range request, redirect from origin, ETag verification, origin response timeout, origin request header, HTTPS, TLS version, force redirect, HSTS, HTTP/2, OCSP stapling, QUIC, cache rule, status code cache TTL, referer validation, IP ACL, User-Agent ACL, token authentication, remote authentication, IP access frequency, HTTP header, custom error page, smart compression, request rate limiting, video seek, origin SNI, and browser cache TTL settings.

URI

GET /v1.1/cdn/configuration/domains/{domain_name}/configs

Table 3-70 Path Parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain name.

Table 3-71 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID. The value all indicates all projects.
show_special_configs	No	String	To query the values of the primary and secondary authentication keys, set this parameter to auth_key .

Request Parameters

Table 3-72 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 3-73 Response body parameters

Parameter	Type	Description
configs	ConfigsGetBody object	Configuration items.

Table 3-74 ConfigsGetBody

Parameter	Type	Description
business_type	String	Service type: <ul style="list-style-type: none"> • web: website acceleration. • download: file download acceleration. • video: on-demand service acceleration.
service_area	String	Service area. <ul style="list-style-type: none"> • mainland_china: Chinese mainland. • global: global. • outside_mainland_china: outside the Chinese mainland. • europe: Europe.
origin_request_header	Array of OriginRequestHeader objects	Origin request header settings.
http_response_header	Array of HttpResponseHeader objects	HTTP header settings.
url_auth	UrlAuthGetBody object	Response body for querying token authentication settings.
https	HttpGetBody object	Response body for querying certificate settings.
sources	Array of SourcesConfigResponseBody objects	Origin server settings.
origin_protocol	String	Origin protocol. Possible values: follow (same as user requests), http (HTTP, default value), and https (HTTPS).

Parameter	Type	Description
origin_follow302_status	String	Redirect from origin. Possible values: on (enabled) and off (disabled).
cache_rules	Array of CacheRules objects	Cache rules.
ip_filter	IpFilter object	IP address blacklist or whitelist.
referrer	RefererConfig object	Referer validation.
force_redirect	ForceRedirectConfig object	Force redirect.
compress	Compress object	Smart compression.
cache_url_parameter_filter	CacheUrlParameterFilterGetBody object	Response body for querying the settings of caching URL parameters. NOTE This old parameter will be deprecated recently.
ipv6_accelerate	Integer	IPv6 settings. Possible values: 1 (enabled) and 0 (disabled).
error_code_cache	Array of ErrorCodeCache objects	Status code cache TTL.
origin_range_status	String	Range requests. Possible values: on (enabled) and off (disabled).
user_agent_filter	UserAgentFilter object	User-Agent blacklist or whitelist settings.
origin_request_url_rewrite	Array of OriginRequestUrlRewrite objects	Origin request URL rewriting.
flexible_origin	Array of flexibleOrigins objects	Advanced origins.
slice_etag_status	String	Whether ETag is verified during origin pull. Possible values: on (yes) and off (no).
origin_receive_timeout	Integer	Origin response timeout, in seconds.
remote_auth	commonRemoteAuth object	Remote authentication settings.

Parameter	Type	Description
video_seek	videoSeek object	Video seek settings. NOTE 1. You have configured a cache rule for FLV and MP4 files and ignored all URL parameters in user requests. 2. Time-based FLV seek is valid only when video seek is enabled.
request_limit_rules	Array of RequestLimitRules objects	Request rate limiting settings.
ip_frequency_limit	IpFrequencyLimitQuery object	IP access frequency.
hsts	HstsQuery object	HSTS settings. HSTS forces clients (such as browsers) to use HTTPS to access your server, improving access security.
quic	Quic object	QUIC protocol.
error_code_direct_rules	Array of ErrorCodeDirectRules objects	Custom error page.
sni	Sni object	Origin SNI.
browser_cache_rules	Array of BrowserCacheRules objects	Browser cache TTL.

Table 3-75 OriginRequestHeader

Parameter	Type	Description
name	String	Name of an origin request header. The value contains 1 to 64 characters, including letters, digits, and hyphens (-). It must start with a letter.
value	String	Value of the origin request header. This parameter is optional for the delete operation. The value contains 1 to 1,000 characters. Variables, for example, <i>\$client_ip</i> and <i>\$remote_port</i> , are not supported.

Parameter	Type	Description
action	String	Operation type of the origin request header. Possible values: delete and set . A request header field can only be deleted or set. set : If the header does not exist in the original origin pull request, add the header before setting its value.

Table 3-76 HttpResponseHeader

Parameter	Type	Description
name	String	HTTP response header. Possible values: Content-Disposition , Content-Language , Access-Control-Allow-Origin , Access-Control-Allow-Methods , Access-Control-Max-Age , Access-Control-Expose-Headers , or custom headers. The value contains 1 to 100 characters, including letters, digits, and hyphens (-). It must start with a letter.
value	String	Value of the HTTP response header. This parameter is optional for the delete operation. The value of a custom HTTP response header contains 1 to 1,000 characters, including letters, digits, and special characters such as <code>._*#!&+ ^~"/:;,=@?<></code> .
action	String	Operation type of the HTTP response header. The value can be set or delete .

Table 3-77 UrlAuthGetBody

Parameter	Type	Description
status	String	Whether token authentication is enabled. Possible values: on (enabled) and off (disabled).
type	String	Signing method. type_a : method A. type_b : method B. type_c1 : method C1. type_c2 : method C2.
expire_time	Integer	Expiration time, in seconds.
sign_method	String	Encryption algorithm.
match_type	String	Authentication scope.

Parameter	Type	Description
inherit_config	InheritConfigQuery object	Authentication inheritance. Authentication parameters are added to TS and MP4 files under M3U8/MPD index files, so that the files can be played after authentication succeeds.
key	String	Signing key.
backup_key	String	Secondary key.
sign_arg	String	Authentication parameters.
time_format	String	Time format. dec : decimal. hex : hexadecimal.

Table 3-78 InheritConfigQuery

Parameter	Type	Description
status	String	Whether authentication inheritance is enabled. The options are on (enabled) and off (disabled).
inherit_type	String	Authentication inheritance settings. The value can be m3u8 , mpd , or m3u8,mpd .
inherit_time_type	String	Time type of the files that inherits authentication settings. sys_time : current system time. parent_url_time : time when a user accesses the M3U8/MPD file.

Table 3-79 HttpGetBody

Parameter	Type	Description
https_status	String	Whether HTTPS is enabled. Possible values: on (enabled) and off (disabled).
certificate_type	String	Certificate type. server : international certificate.
certificate_source	Integer	Certificate source. 1 : Huawei-managed certificate; 0 : your own certificate.
certificate_name	String	Certificate name.
certificate_value	String	Content of the certificate used by the HTTPS protocol. The value must be PEM encoded.
expire_time	Long	Certificate expiration time. NOTE The value is in UTC format.

Parameter	Type	Description
http2_status	String	Whether HTTP/2 is used. Possible values: on (yes) and off (no).
tls_version	String	Transport Layer Security (TLS).
ocsp_stapling_status	String	Whether Online Certificate Status Protocol (OCSP) stapling is enabled. Possible values: on (yes) and off (no).

Table 3-80 SourcesConfigResponseBody

Parameter	Type	Description
origin_type	String	Origin server type. <ul style="list-style-type: none"> • ipaddr: IP address. • domain: origin server domain name. • obs_bucket: OBS bucket domain name. • third_bucket: third-party bucket.
origin_addr	String	IP address or domain name of the origin server.
priority	Integer	Origin server priority. Possible values: 70 (primary) and 30 (standby).
weight	Integer	Weight. The value ranges from 1 to 100.
obs_web_hosting_status	String	Whether static website hosting is enabled for the OBS bucket. This parameter is mandatory when the origin server type is obs_bucket . Possible values: off (disabled) and on (enabled).
http_port	Integer	HTTP port. Default value: 80 . The port number ranges from 1 to 65535.
https_port	Integer	HTTPS port. Default value: 443 . The port number ranges from 1 to 65535.
host_name	String	Host header. The default value is the acceleration domain name.
obs_bucket_type	String	OBS bucket type. <ul style="list-style-type: none"> • private: private bucket (Users except those authorized by the bucket ACL do not have the permission to access the bucket.) • public: public bucket (Any user can read objects in the bucket.)

Parameter	Type	Description
bucket_access_key	String	Access key of the third-party bucket. NOTE This parameter is mandatory when the origin server is a third-party bucket.
bucket_secret_key	String	Secret key of the third-party bucket. NOTE This parameter is mandatory when the origin server is a third-party bucket.
bucket_region	String	Region of the third-party bucket. NOTE This parameter is mandatory when the origin server is a third-party bucket.
bucket_name	String	Name of the third-party bucket. NOTE This parameter is mandatory when the origin server is a third-party bucket.

Table 3-81 CacheRules

Parameter	Type	Description
match_type	String	Match type. <ul style="list-style-type: none"> ● all: all files. ● file_extension: file name extension. ● catalog: directory. ● full_path: full path. ● home_page: homepage. NOTE This parameter is optional when a single cache rule is configured. The default value is all . This parameter is mandatory when multiple cache rules are configured.

Parameter	Type	Description
match_value	String	Cache content based on the cache rule. If match_type is set to all , this parameter is left blank. If match_type is set to file_extension , the value of this parameter is a list of file types. A file type starts with a period (.). File types are separated by commas (,), for example, .jpg,.zip,.exe . Up to 20 file types are supported. If match_type is set to catalog , the value of this parameter is a list of directories. A directory starts with a slash (/). Directories are separated by commas (,), for example, /test/folder01,/test/folder02 . Up to 20 directories are supported. If match_type is set to full_path , the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*). A cache rule can contain only one full path, for example, /test/index.html or /test/*.jpg . If match_type is set to home_page , this parameter is left blank.
ttl	Integer	Cache TTL. The maximum TTL is 365 days. NOTE The default value is 0 .
ttl_unit	String	Unit of the cache TTL. Possible values: s (second), m (minute), h (hour), and d (day).
priority	Integer	Priority of the cache rule. The default value is 1 and the value ranges from 1 to 100. A larger value indicates a higher priority. The priority of a rule must be unique.
follow_origin	String	Origin cache control status. Possible values: on (enabled) and off (disabled). > The default value is off .
url_parameter_type	String	URL parameters. <ul style="list-style-type: none"> • del_params: Ignore specific URL parameters. • reserve_params: Retain specific URL parameters. • ignore_url_params: Ignore all URL parameters. • full_url: Retain all URL parameters. NOTE The default value is full_url .

Parameter	Type	Description
url_parameter_value	String	URL parameters, which are separated by commas (.). Up to 10 parameters can be set. > This parameter is mandatory when url_parameter_type is set to del_params or reserve_params .

Table 3-82 IpFilter

Parameter	Type	Description
type	String	IP ACL type. off : Disable the IP ACL. black : IP address blacklist. white : IP address whitelist.
value	String	IP address blacklist or whitelist. This parameter is optional when type is set to off . A list contains up to 500 IP addresses and IP address segments, which are separated by commas (.). IPv6 addresses are supported. Duplicate IP addresses and IP address segments will be removed. Addresses with wildcard characters are not supported, for example, 192.168.0.*.

Table 3-83 RefererConfig

Parameter	Type	Description
type	String	Referer validation type. off : Disable referer validation. black : referer blacklist. white : referer whitelist.
value	String	Domain names or IP addresses, which are separated by commas (.). Wildcard domain names and domain names with port numbers are supported. Enter up to 400 domain names and IP addresses. The port number ranges from 1 to 65535.
include_empty	Boolean	Whether blank referers are included. A referer blacklist including blank referers indicates that requests without any referers are not allowed to access. A referer whitelist including blank referers indicates that requests without any referers are allowed to access. Possible values: true (included) and false (default value, excluded).

Table 3-84 ForceRedirectConfig

Parameter	Type	Description
status	String	Whether force redirect is enabled. Possible values: on (enabled) and off (disabled).
type	String	Force redirect type. Possible values: http (force redirect to HTTP) and https (force redirect to HTTPS).
redirect_code	Integer	Redirect status code 301 or 302.

Table 3-85 Compress

Parameter	Type	Description
status	String	Whether smart compression is enabled. Possible values: on (enabled) and off (disabled).
type	String	Smart compression type. Possible values: gzip (gzip) and br (Brotli).
file_type	String	Formats of files to be compressed. Enter up to 200 characters. Multiple formats are separated by commas (,). Each format contains up to 50 characters. The default value is .js,.html,.css,.xml,.json,.shtml,.htm when smart compression is used for the first time. When this function is used again and this value is left empty, the result of the previous setting is used.

Table 3-86 CacheUrlParameterFilterGetBody

Parameter	Type	Description
type	String	<p>Operation type of caching URL parameters.</p> <ul style="list-style-type: none"> • full_url: Cache all parameters. • ignore_url_params: Ignore all parameters. • del_params: Ignore specific URL parameters. • reserve_params: Retain specific URL parameters. <p>NOTE The following parameters of this API are adjusted:</p> <ul style="list-style-type: none"> • Replaced del_args with del_params. • Replaced reserve_args with reserve_params.

Parameter	Type	Description
value	String	Parameter value.

Table 3-87 ErrorCodeCache

Parameter	Type	Description
code	Integer	Supported error codes, including 301, 302, 400, 403, 404, 405, 414, 500, 501, 502, 503, and 504.
ttl	Integer	Error code cache TTL, in seconds. The value ranges from 0 to 31,536,000 (365 days each year by default). NOTE The cache TTL of 3XX status codes ranges from 0s to 20s.

Table 3-88 UserAgentFilter

Parameter	Type	Description
type	String	User-Agent blacklist or whitelist type. off : The User-Agent blacklist/whitelist is disabled. black : User-Agent blacklist. white : User-Agent whitelist.
value	String	User-Agent blacklist or whitelist. This parameter is optional when type is set to off . Up to 10 rules can be configured. A single rule contains up to 100 characters. Rules are separated by commas (,).
ua_list	Array of strings	User-Agent blacklist or whitelist. This parameter is optional when type is set to off . Up to 10 rules can be configured. A rule contains up to 100 characters. When ua_list and value are both set, ua_list is used.

Table 3-89 OriginRequestUrlRewrite

Parameter	Type	Description
priority	Integer	Priority of a URL rewrite rule. The priority of a rule is mandatory and must be unique. The rule with the highest priority will be used for matching first. Enter an integer ranging from 1 to 100. A greater number indicates a higher priority.
match_type	String	Match type. all : all files. file_path : URI path. wildcard full_path
source_url	String	URI to be rewritten. A URI starts with a slash (/) and does not contain http:// , https:// , or the domain name. The value contains up to 512 characters. Wildcards (*) are supported, for example, /test/*/*.mp4 . If the match mode is set to all files, parameters cannot be configured.
target_url	String	A URI starts with a slash (/) and does not contain http:// , https:// , or the domain name. The value contains up to 256 characters. The <i>n</i> th wildcard (*) field can be substituted with \$ <i>n</i> , where <i>n</i> = 1, 2, 3..., for example, /newtest/\$1/\$2.jpg .

Table 3-90 flexibleOrigins

Parameter	Type	Description
match_type	String	URI match mode. The value can be file_extension or file_path .
match_pattern	String	file_extension : All file types are supported. A file type starts with a period (.). File types are separated by semicolons (;). Up to 20 file types are supported. file_path : A path starts with a slash (/). Paths are separated by semicolons (;). Up to 20 paths are supported.
priority	Integer	The priority value ranges from 1 to 100. The larger the value, the higher the priority.
back_sources	Array of backSources objects	Origin information. NOTE Only one origin server is allowed in each directory.

Table 3-91 backSources

Parameter	Type	Description
sources_type	String	Origin server type. Possible values: ipaddr (IP address), domain (domain name), and obs_bucket (OBS bucket).
ip_or_domain	String	IP address or domain name of the origin server.
obs_bucket_type	String	OBS bucket type. <ul style="list-style-type: none"> • private: private bucket. • public: public bucket.
http_port	Integer	HTTP port. Value range: 1 to 65535. Default value: 80 .
https_port	Integer	HTTPS port. Value range: 1 to 65535. Default value: 443 .

Table 3-92 commonRemoteAuth

Parameter	Type	Description
remote_authentication	String	Whether remote authentication is enabled. Possible values: on (enabled) and off (disabled).
remote_auth_rules	RemoteAuthRule object	Remote authentication settings.

Table 3-93 RemoteAuthRule

Parameter	Type	Description
auth_server	String	Address of a reachable authentication server. The URL must contain http:// or https://. The address cannot be a local address such as localhost or 127.0.0.1. The address cannot be an acceleration domain name added on CDN.
request_method	String	Request method supported by the authentication server. GET, POST, and HEAD are supported.
file_type_setting	String	all : Requests for all files are authenticated. specific_file : Requests for files of specific types are authenticated. Example: jpg MP4 File types are case insensitive. For example, jpg and JPG indicate the same file type. File types are separated by vertical bars ().

Parameter	Type	Description
specified_file_type	String	The value contains up to 512 characters. This parameter is mandatory when file_type_setting is set to specific_file . In other cases, this parameter is left blank. The value contains letters and digits. File types are separated by vertical bars (), for example, jpg mp4 . This field is verified only when it is mandatory.
reserve_args_setting	String	Parameters that need to be authenticated in user requests. The options are reserve_all_args (retain all URL parameters), reserve_specific_args (retain specified URL parameters), and ignore_all_args (ignore all URL parameters).
reserve_args	String	This parameter is mandatory when reserve_args_setting is set to reserve_specific_args . In other cases, this parameter is left blank. Parameters are separated by vertical bars (), for example, key1 key2 .
add_custom_args_rules	Array of customArgs objects	Token authentication parameters.
reserve_headers_setting	String	Headers to be authenticated in user requests. The options are reserve_all_headers (retain all request headers), reserve_specific_headers (retain specified request headers), and ignore_all_headers (ignore all request headers).
add_custom_headers_rules	Array of customArgs objects	Request header authentication parameters.
auth_success_status	String	Status code returned by the remote authentication server to CDN PoPs when authentication is successful. Value range: 2xx and 3xx.
auth_failed_status	String	Status code returned by the remote authentication server to CDN PoPs when authentication fails. Value range: 4xx and 5xx.
response_status	String	Status code returned by CDN PoPs to users when authentication fails. Value range: 2xx, 3xx, 4xx, and 5xx.

Parameter	Type	Description
timeout	Integer	Authentication timeout interval, that is, the interval from the time when a CDN PoP forwards an authentication request to the time when the CDN PoP receives the result returned by the remote authentication server. Enter 0 or a value ranging from 50 to 3,000. The unit is millisecond.
timeout_action	String	Method used by CDN PoPs to process a user request after authentication times out. pass : The user request is allowed and the corresponding resource is returned after the authentication times out. forbid : The user request is rejected after the authentication times out and the configured status code is returned to the user.
reserve_headers	String	This parameter is mandatory when reserve_headers_setting is set to reserve_specific_headers . In other cases, this parameter is left blank. Request headers are separated by vertical bars (), for example, key1 key2 .

Table 3-94 customArgs

Parameter	Type	Description
type	String	Parameter type. Possible values: custom_var (custom) and nginx_preset_var (preset).
key	String	Parameter, which containing 1 to 256 characters. Only letters, digits, and the following special characters are allowed: <code>._-.*#% +^@?=#</code>
value	String	When type is set to custom_var , the value contains 1 to 256 characters. Only letters, digits, and the following special characters are allowed: <code>._-.*#% +^@?=#</code> When type is set to nginx_preset_var , the value can only be set to \$http_host , \$http_user_agent , \$http_referer , \$http_x_forwarded_for , \$http_content_type , \$remote_addr , \$scheme , \$server_protocol , \$request_uri , \$uri , \$args , and \$request_method .

Table 3-95 videoSeek

Parameter	Type	Description
enable_video_seek	Boolean	Video seek status. true : enabled; false : disabled. NOTE When this parameter is set to false , the API for querying domain name configuration does not return the video seek setting information.
enable_flv_by_time_seek	Boolean	Time-based FLV seek status. true : enabled; false : disabled.
start_parameter	String	Video playback start parameter in user request URLs. The value contains up to 64 characters. Only letters, digits, and underscores (_) are allowed.
end_parameter	String	Video playback end parameter in user request URLs. The value contains up to 64 characters. Only letters, digits, and underscores (_) are allowed.

Table 3-96 RequestLimitRules

Parameter	Type	Description
status	String	Status. The value can only be on . NOTE If request_limit_rules is left empty, request rate limiting is disabled. This parameter is used in earlier APIs and will be deprecated.
priority	Integer	Priority. A larger value indicates a higher priority. The value ranges from 1 to 100. The value must be unique.
match_type	String	Match type. The options are all (all files) and catalog (directory).
match_value	String	Match type value. When match_type is set to all , leave this parameter empty. When match_type is set to catalog , the value is a directory address starting with a slash (/), for example, /test . NOTE This parameter is mandatory when match_type is set to catalog .
type	String	Rate limit mode. Currently, only rate limit by traffic is supported. This parameter can only be set to size .

Parameter	Type	Description
limit_rate_after	Long	Rate limiting condition. type=size,limit_rate_after=50 indicates that the speed is limited to the value of limit_rate_after after 50 bytes are transmitted. Unit: byte. Value range: 0 to 1,073,741,824.
limit_rate_value	Integer	Rate limit, in bit/s. The value ranges from 0 to 104,857,600.

Table 3-97 IpFrequencyLimitQuery

Parameter	Type	Description
status	String	Status. The options are on (enabled) and off (disabled).
qps	Integer	Access threshold, in times/second.

Table 3-98 HstsQuery

Parameter	Type	Description
status	String	Status. The options are on (enabled) and off (disabled).
max_age	Integer	Expiration time, that is, the TTL of the response header Strict-Transport-Security on the client. Unit: second.
include_subdomains	String	Whether subdomain names are included. The options are on (included) and off (not included).

Table 3-99 Quic

Parameter	Type	Description
status	String	Status. The options are on (enabled) and off (disabled).

Table 3-100 ErrorCodeRedirectRules

Parameter	Type	Description
error_code	Integer	Redirect error code. Currently, the following status codes are supported: 4xx: 400, 403, 404, 405, 414, 416, and 451 5xx: 500, 501, 502, 503, and 504
target_code	Integer	Redirect status code. The value can be 301 or 302 .
target_link	String	Destination URL.

Table 3-101 Sni

Parameter	Type	Description
status	String	Origin SNI status. Possible values: on (enabled) and off (disabled).
server_name	String	Origin domain name to be accessed when CDN pulls origin content, for example, test.example.com . NOTE <ol style="list-style-type: none"> 1. This parameter is mandatory when origin SNI is enabled. 2. Wildcard domain names are not supported. Only letters, digits, hyphens (-), and periods (.) are supported.

Table 3-102 BrowserCacheRules

Parameter	Type	Description
condition	BrowserCacheRulesCondition object	Match condition.
cache_type	String	Cache effective type. <ul style="list-style-type: none"> ● follow_origin: The cache policy of the origin server, that is, the setting of the Cache-Control header, is used. ● ttl: The TTL set in this rule is used. ● never: Browsers do not cache the resources.
tll	Integer	Cache TTL. The maximum TTL is 365 days. NOTE This parameter is mandatory when the cache effective type is set to tll .

Parameter	Type	Description
tll_unit	String	Unit of the cache TTL. Possible values: s (second), m (minute), h (hour), and d (day). NOTE This parameter is mandatory when the cache effective type is set to tll .

Table 3-103 BrowserCacheRulesCondition

Parameter	Type	Description
match_type	String	Match type. <ul style="list-style-type: none"> • all: all files. • file_extension: file name extension. • catalog: directory. • full_path: full path. • home_page: homepage.
match_value	String	Cache content based on the cache rule. If match_type is set to all , this parameter is left blank. If match_type is set to file_extension , the value of this parameter is a list of file types. A file type starts with a period (.). File types are separated by commas (,), for example, .jpg,zip,exe . Up to 20 file types are supported. If match_type is set to catalog , the value of this parameter is a list of directories. A directory starts with a slash (/). Directories are separated by commas (,), for example, /test/folder01,/test/folder02 . Up to 20 directories are supported. If match_type is set to full_path , the value of this parameter is a full path. A full path starts with a slash (/) and supports wildcard characters (*), but cannot end with a wildcard (*). A wildcard (*) can only follow the last slash (/). A cache rule can contain only one full path, for example, /test/index.html or /test/*.jpg . If match_type is set to home_page , this parameter is left blank.
priority	Integer	Priority of the rule. Enter an integer ranging from 1 to 100. A greater number indicates a higher priority. Each rule must have a unique priority.

Example Requests

GET <https://cdn.myhuaweicloud.eu/v1.1/cdn/configuration/domains/www.example.com/configs>

Example Responses

Status code: 200

Success response.

```
{
  "configs" : {
    "origin_request_header" : [ ],
    "http_response_header" : [ ],
    "https" : {
      "https_status" : "off"
    },
    "url_auth" : {
      "status" : "off"
    },
    "compress" : {
      "status" : "off"
    },
    "force_redirect" : {
      "status" : "on",
      "type" : "http"
    },
    "origin_protocol" : "follow",
    "referer" : {
      "type" : "string",
      "value" : "string",
      "include_empty" : true
    },
    "ip_filter" : {
      "type" : "string",
      "value" : "string"
    },
    "origin_follow302_status" : "off",
    "cache_rules" : [ {
      "match_type" : "string",
      "match_value" : "string",
      "ttl" : 0,
      "ttl_unit" : "string",
      "priority" : 0,
      "follow_origin" : "string",
      "url_parameter_type" : "string",
      "url_parameter_value" : "string"
    } ],
    "sources" : [ {
      "origin_addr" : "www.example.com",
      "origin_type" : "domain",
      "priority" : 70,
      "http_port" : 80,
      "https_port" : 443
    } ],
    "cache_url_parameter_filter" : {
      "type" : "del_params",
      "value" : "key1;key2"
    },
    "flexible_origin" : [ {
      "priority" : 1,
      "match_type" : "/test",
      "match_pattern" : "file_path",
      "back_sources" : [ {
        "sources_type" : "domain",
        "ip_or_domain" : "www.example.com",
        "obs_bucket_type" : "public"
      } ]
    } ],
    "slice_etag_status" : "off",
    "ipv6_accelerate" : 1,
    "origin_receive_timeout" : 30,
    "remote_auth" : {
```

```

"remote_authentication" : "on",
"remote_auth_rules" : {
  "auth_server" : "https://1.1.1.1",
  "request_method" : "GET",
  "file_type_setting" : "all",
  "reserve_args_setting" : "reserve_all_args",
  "reserve_args" : "string",
  "specified_file_type" : "string",
  "reserve_headers_setting" : "reserve_specific_headers",
  "auth_success_status" : "200",
  "auth_failed_status" : "403",
  "response_status" : "403",
  "timeout" : 500,
  "timeout_action" : "pass",
  "reserve_headers" : "sf",
  "add_custom_args_rules" : [ {
    "type" : "nginx_preset_var",
    "key" : "http_host",
    "value" : "$http_host"
  } ],
  "add_custom_headers_rules" : [ {
    "type" : "nginx_preset_var",
    "key" : "http_host",
    "value" : "$http_host"
  } ]
}
},
"video_seek" : {
  "enable_video_seek" : true,
  "enable_flv_by_time_seek" : true,
  "start_parameter" : "start",
  "end_parameter" : "end"
},
"request_limit_rules" : [ {
  "status" : "on",
  "type" : "size",
  "limit_rate_after" : 1024,
  "limit_rate_value" : 50
} ],
"sni" : {
  "status" : "on",
  "server_name" : "test.example.com"
},
"browser_cache_rules" : [ {
  "condition" : {
    "match_type" : "full_path",
    "match_value" : "/test/*.jpg",
    "priority" : 10
  },
  "cache_type" : "ttl",
  "ttl" : 20,
  "ttl_unit" : "h"
} ]
}
}

```

Status Codes

Status Code	Description
200	Success response.

3.3 Cache Refreshing and Preheating

3.3.1 Creating a Cache Refreshing Task

Function

This API is used to create a cache refreshing task.

URI

POST /v1.0/cdn/content/refresh-tasks

Table 3-104 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project to which the cache refreshing task is added. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 3-105 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Table 3-106 Request body parameters

Parameter	Mandatory	Type	Description
refresh_task	Yes	RefreshTaskRequestBody object	Cache refreshing settings.

Table 3-107 RefreshTaskRequestBody

Parameter	Mandatory	Type	Description
type	No	String	Type of cached content to be refreshed. Possible values: file and directory . Default value: file .
urls	Yes	Array of strings	A URL must contain http:// or https://. A URL can contain up to 4096 characters. Enter up to 1000 URLs or 100 directories and separate them by commas (,). NOTE If a URL contains Chinese characters, refresh both this URL and its encoded URL.

Response Parameters

Status code: 200

Table 3-108 Response body parameters

Parameter	Type	Description
refresh_task	String	Task ID.

Example Requests

```
POST https://{endpoint}/v1.0/cdn/content/refresh-tasks?enterprise_project_id=0
{
  "refresh_task" : {
    "type" : "file",
    "urls" : [ "https://www.bxxx/1.txt", "http://www.bxxx/2.txt" ]
  }
}
```

Example Responses

Status code: 200

OK

```
{  
  "refresh_task" : "7620242"  
}
```

Status Codes

Status Code	Description
200	OK

3.3.2 Creating a Cache Preheating Task

Function

This API is used to create a cache preheating task.

URI

POST /v1.0/cdn/content/preheating-tasks

Table 3-109 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project to which the cache preheating task is added. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Request Parameters

Table 3-110 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Table 3-111 Request body parameters

Parameter	Mandatory	Type	Description
preheating_task	Yes	PreheatingTaskRequestBody object	Cache preheating settings.

Table 3-112 PreheatingTaskRequestBody

Parameter	Mandatory	Type	Description
urls	Yes	Array of strings	A URL must contain http:// or https://. A URL can contain up to 4096 characters. Enter up to 1000 URLs and separate them by commas (,). Currently, directory preheating is not supported.

Response Parameters

Status code: 200

Table 3-113 Response body parameters

Parameter	Type	Description
preheating_task	String	Task ID.

Example Requests

```
POST https://{endpoint}/v1.0/cdn/content/preheating-tasks?enterprise_project_id=0
```

```
{
  "preheating_task" : {
    "urls" : [ "https://www.bxxx/1.txt", "http://www.bxxx/2.txt" ]
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "preheating_task" : "7620240"
}
```

Status Codes

Status Code	Description
200	OK

3.3.3 Querying Cache Refreshing and Preheating Tasks

Function

This API is used to query cache refreshing and preheating tasks.

URI

GET /v1.0/cdn/historytasks

Table 3-114 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).

Parameter	Mandatory	Type	Description
page_size	No	Integer	Maximum number of records on each page. The value ranges from 1 to 10,000. Both page_size and page_number must be set. Default value: 30 .
page_number	No	Integer	Number of the page to be queried. The value ranges from 1 to 65,535. Default value: 1 .
status	No	String	Task status. task_inprocess : The task is being processed. task_done : The task is completed.
start_date	No	Long	Query start time. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
end_date	No	Long	Query end time. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
order_field	No	String	Field used for sorting. Supported fields include task_type (task type), total (total number of URLs), processing (number of URLs that are being processed), succeed (number of processed URLs), failed (number of URLs that fail to be processed), and create_time (task creation time). Both order_field and order_type must be set. Otherwise, the default values create_time and desc are used.
order_type	No	String	desc : descending order; asc : ascending order. Default value: desc .
file_type	No	String	Content type. The default value is file . Possible values: file and directory .

Request Parameters

Table 3-115 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-116 Response body parameters

Parameter	Type	Description
total	Integer	Total number of tasks.
tasks	Array of TasksObject objects	Log list.

Table 3-117 TasksObject

Parameter	Type	Description
id	String	Task ID.
task_type	String	Task type. Possible values: refresh and preheating .
status	String	Refreshing task result. task_done : The task is completed. task_inprocess : The task is being processed.
processing	Integer	Number of URLs that are being processed.
succeed	Integer	Number of URLs processed.
failed	Integer	Number of URLs that failed to be processed.
total	Integer	Total number of URLs in the task.
create_time	Long	Time when the task was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).

Parameter	Type	Description
file_type	String	Content type. The default value is file . Possible values: file and directory .

Example Requests

```
GET https://{endpoint}/v1.0/cdn/historytasks?
status=task_inprocess&page_size=30&page_number=1&enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "total": 2,
  "tasks": [ {
    "id": "ff8080xxxxxxxxxxd816ff0128",
    "status": "task_inprocess",
    "processing": 2,
    "succeed": 0,
    "failed": 0,
    "task_type": "refresh",
    "total": 2,
    "create_time": 1534240233215,
    "file_type": "file"
  }, {
    "id": "ff8080xxxxxxxxxx4fe64797",
    "status": "task_inprocess",
    "processing": 1,
    "succeed": 0,
    "failed": 0,
    "task_type": "refresh",
    "total": 1,
    "create_time": 1534240219944,
    "file_type": "file"
  } ]
}
```

Status Codes

Status Code	Description
200	OK

3.3.4 Querying a Cache Refreshing or Preheating Task

Function

This API is used to query details about a cache refreshing or preheating task.

URI

GET /v1.0/cdn/historytasks/{history_tasks_id}/detail

Table 3-118 Path Parameters

Parameter	Mandatory	Type	Description
history_tasks_id	Yes	String	Task ID.

Table 3-119 Query Parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API. Obtain the enterprise project ID by calling the ListEnterpriseProject API of Enterprise Project Management Service (EPS).
page_size	No	Integer	Maximum number of URLs for refreshing and preheating on each page. The value ranges from 1 to 10,000. Both page_size and page_number must be set. Default value: 30 .
page_number	No	Integer	Number of the page to be queried. The value ranges from 1 to 65,535. Default value: 1 .
status	No	String	URL status. Possible values: processing , succeed , and failed .
url	No	String	URL.

Parameter	Mandatory	Type	Description
create_time	No	Long	Time when a preheating task was created. If this parameter is not passed, tasks within the last seven days are queried by default. Data within the last 15 days can be queried.

Request Parameters

Table 3-120 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the corresponding IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-121 Response body parameters

Parameter	Type	Description
id	String	Task ID.
task_type	String	Task type. Possible values: refresh and preheating .
status	String	Task execution result. Possible values: task_done (successful) and task_inprocess (processing).
urls	Array of UrlObject objects	URL list.
create_time	Long	Creation time.
processing	Integer	Number of URLs that are being processed.
succeed	Integer	Number of URLs processed.
failed	Integer	Number of URLs that failed to be processed.
total	Integer	Total number of URLs in historical tasks.

Parameter	Type	Description
file_type	String	File type. Possible values: file (default value) and directory .

Table 3-122 UrlObject

Parameter	Type	Description
id	String	URL ID.
url	String	URL.
status	String	URL status. Possible values: processing , succeed , failed , waiting , refreshing , and preheating .
create_time	Long	Time when the URL was created. The value is the number of milliseconds since the UNIX epoch (Jan 1, 1970).
task_id	String	Task ID.
task_type	String	Task type. The value can be REFRESH , PREHEATING , or REFRESH_AFTER_PREHEATING .

Example Requests

```
GET https://{endpoint}/v1.0/cdn/historytasks/ff808*****b39/detail?
page_size=10&page_number=1&enterprise_project_id=0
```

Example Responses

Status code: 200

OK

```
{
  "id" : "ff80808xxxxxxxxx64797",
  "status" : "task_inprocess",
  "processing" : 2,
  "succeed" : 0,
  "failed" : 0,
  "urls" : [ {
    "url" : "http://www.example1.example2.com/index.html",
    "id" : "ff80808264xxxxxxxxx60c4fe74798",
    "status" : "processing",
    "create_time" : 1532867923942,
    "task_id" : "ff80808xxxxxxxxx64797",
    "task_type" : "PREHEATING"
  }, {
    "url" : "http://www.example1.example2.com/web",
    "id" : "ff80808*****4799",
    "status" : "processing",
    "create_time" : 1532867923942,
    "task_id" : "ff80808xxxxxxxxx64797",
```



```

    "task_type" : "PREHEATING"
  } ],
  "task_type" : "preheating",
  "total" : 2,
  "create_time" : 1532867923942,
  "file_type" : "file"
}

```

Status Codes

Status Code	Description
200	OK

3.3.5 Querying Cache Refreshing and Preheating Records

Function

This API is used to query cache refreshing and preheating records. To use this API, submit a service ticket.

URI

GET /v1.0/cdn/contentgateway/url-tasks

Table 3-123 Query Parameters

Parameter	Mandatory	Type	Description
start_time	No	Long	Start timestamp, in milliseconds. The default value is 00:00 of the current day.
end_time	No	Long	End timestamp, in milliseconds. The default value is 00:00 of the next day.
offset	No	Integer	Offset, which indicates the distance between a specific data field and the start data field.
limit	No	Integer	Number of records to be queried at a time. The maximum value is 100 .
url	No	String	URL to be refreshed or preheated.

Parameter	Mandatory	Type	Description
task_type	No	String	Task type. Possible values: REFRESH (cache refreshing) and PREHEATING (cache preheating).
status	No	String	URL status. Possible values: processing , succeed , and failed .
file_type	No	String	File type. Possible values: file and directory .

Request Parameters

None

Response Parameters

Status code: 200

Table 3-124 Response header parameters

Parameter	Type	Description
X-request-id	String	Task request ID.

Table 3-125 Response body parameters

Parameter	Type	Description
total	Integer	Total number of queried records.
count	Integer	Total number of pages queried.
result	Array of urls objects	URL info.

Table 3-126 urls

Parameter	Type	Description
id	Long	URL ID.
url	String	URL details.

Parameter	Type	Description
status	String	URL status. Possible values: processing , succeed , failed , waiting , refreshing , and preheating .
type	String	Task type. Possible values: REFRESH (cache refreshing) and PREHEATING (cache preheating).
task_id	Long	Task ID.
modify_time	Long	Modification timestamp, in milliseconds.
create_time	Long	Creation timestamp, in milliseconds.
file_type	String	File type. Possible values: file and directory .

Status code: 400

Table 3-127 Response header parameters

Parameter	Type	Description
X-request-id	String	Task request ID.

Table 3-128 Response body parameters

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

Example Requests

```
GET https://cdn.myhuaweicloud.com/v1.0/cdn/contentgateway/url-tasks?&status=processing
```

Example Responses

Status code: 200

Query result response example

```
{
  "total" : 31548,
  "count" : 10,
  "result" : [ {
    "id" : 8992619,
    "url" : "https://scxximwp.qqeixmbe.com/test.jpg",
    "status" : "SUCCEED",
    "type" : "REFRESH",
    "task_id" : 407354,
```

```
"modify_time" : 1652325742000,
"create_time" : 1652325740318,
"file_type" : "file"
}, {
  "id" : 8992618,
  "url" : "https://obut8gmc.qqeixmbe.com/test.jpg",
  "status" : "SUCCEED",
  "type" : "REFRESH",
  "task_id" : 407353,
  "modify_time" : 1652325711000,
  "create_time" : 1652325708268,
  "file_type" : "file"
}, {
  "id" : 8992617,
  "url" : "https://scxximwp.qqeixmbe.com/test.jpg",
  "status" : "SUCCEED",
  "type" : "REFRESH",
  "task_id" : 407353,
  "modify_time" : 1652325711000,
  "create_time" : 1652325708268,
  "file_type" : "file"
}, {
  "id" : 8992616,
  "url" : "http://content-hw.autotest.com/autotest/DQCkkgmV",
  "status" : "PROCESSING",
  "type" : "REFRESH",
  "task_id" : 407352,
  "modify_time" : 1652325672000,
  "create_time" : 1652325671917,
  "file_type" : "file"
}, {
  "id" : 8992615,
  "url" : "http://content-hw.autotest.com/autotest/dQSF5jEx",
  "status" : "PROCESSING",
  "type" : "REFRESH",
  "task_id" : 407352,
  "modify_time" : 1652325672000,
  "create_time" : 1652325671917,
  "file_type" : "file"
}, {
  "id" : 8992614,
  "url" : "http://content-hw.autotest.com/autotest/quN2l1oh",
  "status" : "PROCESSING",
  "type" : "REFRESH",
  "task_id" : 407352,
  "modify_time" : 1652325672000,
  "create_time" : 1652325671917,
  "file_type" : "file"
}, {
  "id" : 8992613,
  "url" : "http://content-hw.autotest.com/autotest/Wgk3AKVu",
  "status" : "PROCESSING",
  "type" : "REFRESH",
  "task_id" : 407352,
  "modify_time" : 1652325672000,
  "create_time" : 1652325671917,
  "file_type" : "file"
}, {
  "id" : 8992612,
  "url" : "http://content-hw.autotest.com/autotest/jg1cv1vV",
  "status" : "PROCESSING",
  "type" : "REFRESH",
  "task_id" : 407352,
  "modify_time" : 1652325672000,
  "create_time" : 1652325671917,
  "file_type" : "file"
}, {
  "id" : 8992611,
  "url" : "http://content-hw.autotest.com/autotest/DTxFfv6f",
```

```

    "status": "PROCESSING",
    "type": "REFRESH",
    "task_id": 407352,
    "modify_time": 1652325672000,
    "create_time": 1652325671917,
    "file_type": "file"
  }, {
    "id": 8992610,
    "url": "http://content-hw.autotest.com/autotest/g8QYHTY4",
    "status": "PROCESSING",
    "type": "REFRESH",
    "task_id": 407352,
    "modify_time": 1652325672000,
    "create_time": 1652325671917,
    "file_type": "file"
  }
}

```

Status Codes

Status Code	Description
200	Query result response example
400	Error response

3.4 Billing Management

3.4.1 Querying the Billing Option

Function

- This API is used to query the billing option.
- The billing option status can be **active** (effective, default value) or **upcoming** (to take effect).
- The acceleration type can only be **base** (basic acceleration).
- A single tenant can call this API five times per second.

URI

GET /v1.0/cdn/charge/charge-modes

Table 3-129 Query Parameters

Parameter	Mandatory	Type	Description
product_type	Yes	String	Acceleration type. The value is base (basic acceleration).

Parameter	Mandatory	Type	Description
status	No	String	Billing option status. The options are active (effective) and upcoming (to take effect). If this parameter is not passed, the default value active is used.

Request Parameters

None

Response Parameters

Status code: 200

Table 3-130 Response body parameters

Parameter	Type	Description
result	Array of Map<String, Object> objects	Result of querying the billing option.

Status code: 400

Table 3-131 Response body parameters

Parameter	Type	Description
error	ErrMsg object	Error code and error message.

Table 3-132 ErrMsg

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

Example Requests

Querying the billing option

GET `https://{endpoint}/v1.0/cdn/charge/charge-modes?&product_type='base'&status='active'`

Example Responses

Status code: 200

Success response

- Querying the billing option

```
{
  "result": {
    "charge_mode": "flux",
    "effective_time": 1666238400000,
    "service_area": "global",
    "status": "active",
    "product_type": "base"
  }
}
```

Status Codes

Status Code	Description
200	Success response
400	Error response

3.4.2 Configuring the Billing Option

Function

- This API is used to configure the billing option.
- The service region can only be global.
- The billing option can be **flux** (traffic-based billing) or **bw** (bandwidth-based billing, only for V2 and higher customers).
- The acceleration type can only be **base** (basic acceleration).
- A single tenant can call this API 10 times per minute.

URI

PUT /v1.0/cdn/charge/charge-modes

Request Parameters

Table 3-133 Request body parameters

Parameter	Mandatory	Type	Description
charge_mode	Yes	String	Billing option. The value can be flux (traffic-based billing) or bw (bandwidth-based billing, only for V2 and higher customers).

Parameter	Mandatory	Type	Description
product_type	Yes	String	Product mode. Only base (basic acceleration) is supported.
service_area	Yes	String	Service region. Only global is supported.

Response Parameters

Status code: 200

Table 3-134 Response body parameters

Parameter	Type	Description
charge_mode	String	Billing option of the account.
product_type	String	Service type.
effective_time	Long	Effective time of the option.
create_time	Long	Creation time.
service_area	String	Area of this option.
status	String	Status. The status is active when the option is enabled for the first time and is changed to upcoming when the option is enabled again.

Status code: 400

Table 3-135 Response body parameters

Parameter	Type	Description
error	ErrMsg object	Error code and error message.

Table 3-136 ErrMsg

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

Example Requests

Configuring the billing option

```
POST https://{endpoint}/v1.0/cdn/charge/charge-modes
{
  "charge_mode": "flux",
  "product_type": "base",
  "service_area": "global"
}
```

Example Responses

Status code: 200

Success response

- Configuring the billing option

```
{
  "charge_mode": "flux",
  "effective_time": 1666238400000,
  "create_time": 1664596800000,
  "service_area": "global",
  "status": "active",
  "product_type": "base"
}
```

Status Codes

Status Code	Description
200	Success response
400	Error response

3.5 Statistical Analysis

3.5.1 Querying Domain Name Statistics by Region and Carrier

Function

- You can query data within the past 90 days.
- You can query up to 5 metrics each time.
- You can query up to 20 domain names each time.
- The start time and end time must be timestamps in milliseconds and must be exact time points that match the query interval. For example, if the query interval is 5 minutes, the start time and end time must be exact 5-minute intervals, for example, 0 minutes, 5 minutes, 10 minutes, and 15 minutes. If the time points do not match the query interval, the returned data may not be the expected data. If the start time is **2019-01-24 20:15:00** and the query interval is 5 minutes, the statistics in [20:15:00, 20:20:00) are queried.

- Values of **action** include **location_detail** and **location_summary**.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics, and number of times for request quantity and status code-related metrics. You can query statistics about specific domain names by specific metrics, regions, and carriers.
- A single tenant can call this API 15 times per second.

URI

GET /v1.0/cdn/statistics/domain-location-stats

Table 3-137 Query Parameters

Parameter	Mandatory	Type	Description
action	Yes	String	<ul style="list-style-type: none"> • Action name. Possible values: location_summary and location_detail. • location_summary: querying summary data. • location_detail: querying data details.
start_time	Yes	Long	<ul style="list-style-type: none"> • Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of interval is 300, set this parameter to a multiple of 5 minutes, for example, 1631240100000 (2021-09-10 10:15:00). • If the value of interval is 3600, set this parameter to a multiple of 1 hour, for example, 1631239200000 (2021-09-10 10:00:00).

Parameter	Mandatory	Type	Description
end_time	Yes	Long	<ul style="list-style-type: none"> End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. If the value of interval is 300, set this parameter to a multiple of 5 minutes, for example, 1631243700000 (2021-09-10 11:15:00). If the value of interval is 3600, set this parameter to a multiple of 1 hour, for example, 1631325600000 (2021-09-11 10:00:00).
domain_name	Yes	String	<p>Domain name list. Use commas (,) to separate multiple domain names, for example, www.test1.com,www.test2.com.all indicates that all domain names are queried.</p>
stat_type	Yes	String	<ul style="list-style-type: none"> Network resource consumption statistics: <ul style="list-style-type: none"> bw (bandwidth) flux (traffic) Access statistics: <ul style="list-style-type: none"> req_num (number of requests)
interval	No	Long	<ul style="list-style-type: none"> Query interval, in seconds. 300 (5 minutes): The maximum query time span is two days. 3600 (1 hour): The maximum query time span is seven days. If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.

Parameter	Mandatory	Type	Description
country	No	String	<ul style="list-style-type: none"> Country and region codes, which are separated by commas (,). The value all indicates all codes. For details about the values, see the appendix. This parameter cannot be set when carrier statistics are queried.
isp	No	String	Carrier code. Use commas (,) to separate multiple codes. all indicates all carriers are queried. For details about the values, see the appendix.
group_by	No	String	Data grouping mode. Use commas (,) to separate multiple groups. Available data groups are domain , country , and isp . By default, data is not grouped.
enterprise_project_id	No	String	ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API.

Request Parameters

None

Response Parameters

Status code: 200

Table 3-138 Response body parameters

Parameter	Type	Description
group_by	String	Data grouping mode.
result	Map<String,Object>	Data organized according to the specified grouping mode.

Status code: default

Table 3-139 Response body parameters

Parameter	Type	Description
error	ErrMsg object	Error code and error message.

Table 3-140 ErrMsg

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

Example Requests

- Ungrouped domain details

```
GET https://{endpoint}/v1.0/cdn/statistics/domain-location-stats?
action='location_summary'&start_time=1667030400000&end_time=1667116800000&domain_name='w
ww.test1.com'&stat_type='flux'&interval=300&country='ch'&isp='swisscom'&enterprise_project_id='all'
```
- Domain details by domain

```
GET https://{endpoint}/v1.0/cdn/statistics/domain-location-stats?
action='location_summary'&start_time=1667030400000&end_time=1667116800000&domain_name='w
ww.test1.com'&stat_type='flux'&interval=300&country='ch'&isp='swisscom'&group_by='domain'&enterp
rise_project_id='all'
```

Example Responses

Status code: 200

Success response

- Ungrouped domain details

```
{
  "result": {
    "flux": [ 0, 1, 2 ]
  }
}
```
- Details by domain

```
{
  "group_by": "domain",
  "result": {
    "www.test1.com": {
      "flux": [ 0, 1, 2 ]
    },
    "www.test2.com": {
      "flux": [ 0, 1, 2 ]
    }
  }
}
```
- Domain details by country/region

```
{
  "group_by": "country",
  "result": {
    "ch": {
```

```
    "flux" : [ 0, 1, 2 ]
  },
  "se" : {
    "flux" : [ 0, 1, 2 ]
  }
}
```

- Domain details by carrier

```
{
  "group_by" : "isp",
  "result" : {
    "swisscom" : {
      "flux" : [ 0, 1, 2 ]
    },
    "telia" : {
      "flux" : [ 0, 1, 2 ]
    }
  }
}
```

- Domain details by domain and country/region

```
{
  "group_by" : "domain,country",
  "result" : {
    "www.test1.com" : {
      "ch" : {
        "flux" : [ 0, 1, 2 ]
      },
      "se" : {
        "flux" : [ 0, 1, 2 ]
      }
    },
    "www.test2.com" : {
      "ch" : {
        "flux" : [ 0, 1, 2 ]
      },
      "se" : {
        "flux" : [ 0, 1, 2 ]
      }
    }
  }
}
```

- Domain details by domain and carrier

```
{
  "group_by" : "domain,isp",
  "result" : {
    "www.test1.com" : {
      "swisscom" : {
        "req_num" : [ 0, 1, 2 ]
      }
    },
    "www.test2.com" : {
      "swisscom" : {
        "req_num" : [ 0, 1, 2 ]
      }
    }
  }
}
```

- Overall domain data

```
{
  "result" : {
    "flux" : 1024
  }
}
```

- Overall data by domain

```
{
  "group_by" : "domain",
```

```
"result": {
  "www.test1.com": {
    "flux": 1024
  },
  "www.test2.com": {
    "flux": 1024
  }
}
```

- Overall domain data by country/region

```
{
  "group_by": "country",
  "result": {
    "ch": {
      "flux": 1024
    },
    "se": {
      "flux": 1024
    }
  }
}
```

- Overall domain data by carrier

```
{
  "group_by": "isp",
  "result": {
    "swisscom": {
      "flux": 1024
    },
    "telia": {
      "flux": 1024
    }
  }
}
```

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

3.5.2 Querying Basic Domain Name Statistics

Function

- You can query data within the past 90 days.
- You can query up to 5 metrics each time.
- You can query up to 20 domain names each time.
- The start time and end time must be timestamps in milliseconds and must be exact time points that match the query interval. For example, if the query interval is 5 minutes, the start time and end time must be exact 5-minute intervals, for example, 0 minutes, 5 minutes, 10 minutes, and 15 minutes. If the time points do not match the query interval, the returned data may not be the expected data. If the start time is **2019-01-24 20:15:00** and the query interval is 5 minutes, the statistics in [20:15:00, 20:20:00) are queried.

- Values of **action** include **detail** and **summary**.
- Unit: byte for traffic-related metrics, bit/s for bandwidth-related metrics, and number of times for request quantity and status code-related metrics. You can query statistics about specific domain names by specific metrics.
- A single tenant can call this API 15 times per second.

URI

GET /v1.0/cdn/statistics/domain-stats

Table 3-141 Query Parameters

Parameter	Mandatory	Type	Description
action	Yes	String	<ul style="list-style-type: none"> • Action name. Possible values are summary and detail. • summary: querying summary data. • detail: querying data details.
start_time	Yes	Long	<ul style="list-style-type: none"> • Start timestamp of the query. This parameter must be specified together with the end timestamp. The query interval is left-closed and right-open. • If the value of interval is 300, set this parameter to a multiple of 5 minutes, for example, 1631240100000 (2021-09-10 10:15:00). • If the value of interval is 3600, set this parameter to a multiple of 1 hour, for example, 1631239200000 (2021-09-10 10:00:00).

Parameter	Mandatory	Type	Description
end_time	Yes	Long	<ul style="list-style-type: none"> End timestamp of the query. This parameter must be specified together with the start timestamp. The query interval is left-closed and right-open. If the value of interval is 300, set this parameter to a multiple of 5 minutes, for example, 1631243700000 (2021-09-10 11:15:00). If the value of interval is 3600, set this parameter to a multiple of 1 hour, for example, 1631325600000 (2021-09-11 10:00:00).
domain_name	Yes	String	<p>Domain name list. Use commas (,) to separate multiple domain names, for example, www.test1.com,www.test2.com.all indicates that all domain names are queried.</p>

Parameter	Mandatory	Type	Description
stat_type	Yes	String	<ul style="list-style-type: none"> • Network resource consumption statistics: <ul style="list-style-type: none"> - bw (bandwidth) - flux (traffic) - bs_bw (retrieval bandwidth) - bs_flux (retrieval traffic) • Access statistics: <ul style="list-style-type: none"> - req_num (number of requests) - bs_num (number of content retrieval requests) - bs_fail_num (number of failed content retrieval requests) • HTTP status code statistics (one or more types can be returned): <ul style="list-style-type: none"> - http_code_2xx (status codes 2xx) - http_code_3xx (status codes 3xx) - http_code_4xx (status codes 4xx) - http_code_5xx (status codes 5xx)
interval	No	Long	<ul style="list-style-type: none"> • Query interval, in seconds. • 300 (5 minutes): The maximum query time span is two days. • 3600 (1 hour): The maximum query time span is seven days. • If this parameter is not passed, the system uses the smallest value corresponding to the queried time span by default.
group_by	No	String	Data grouping mode. This parameter can be set to domain . By default, data is not grouped.

Parameter	Mandatory	Type	Description
service_area	Yes	String	<p>europa: Europe.</p> <p>asia_pacific_1: Asia Pacific 1, including Japan, South Korea, Hong Kong (China), Macao (China), and Taiwan (China).</p> <p>asia_pacific_2: Asia Pacific 2, including India.</p> <p>asia_pacific_3: Asia Pacific 3, including other regions in Asia Pacific.</p> <p>me_africa: Middle East and Africa.</p> <p>north_america: North America.</p> <p>oceania: Oceania.</p> <p>south_america: South America. This parameter is invalid when retrieval metrics are queried. In Europe, Asia Pacific 1, Asia Pacific 2, Asia Pacific 3, Middle East and Africa, North America, Oceania, and South America, only flux (traffic), bw (bandwidth), and req_num (number of requests) can be queried. HTTP status code metrics http_code_2xx, http_code_3xx, http_code_4xx, and http_code_5xx can be queried only in the global region.</p>
enterprise_project_id	No	String	<p>ID of the enterprise project to which the resource belongs. This parameter is valid only when the enterprise project function is enabled. The value all indicates all projects. This parameter is mandatory when you use an IAM user to call this API.</p>

Request Parameters

None

Response Parameters

Status code: 200

Table 3-142 Response body parameters

Parameter	Type	Description
result	Map<String, Object>	Data organized according to the specified grouping mode.

Status code: default

Table 3-143 Response body parameters

Parameter	Type	Description
error	ErrMsg object	Error code and error message.

Table 3-144 ErrMsg

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

Example Requests

- Ungrouped details**
 GET https://{endpoint}/v1.0/cdn/statistics/domain-stats?

action='summary'&start_time=1667030400000&end_time=1667116800000&domain_name='www.test1.com'&stat_type='flux'&interval=300&service_area='europe'&enterprise_project_id='all'
- Details by domain**
 GET https://{endpoint}/v1.0/cdn/statistics/domain-stats?

action='summary'&start_time=1667030400000&end_time=1667116800000&domain_name='www.test1.com'&stat_type='flux'&interval=300&group_by='domain'&service_area='europe'&enterprise_project_id='all'

Example Responses

Status code: 200

Success response

- Ungrouped details**

```
{
  "result": {
    "flux": [ 1000, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 ]
  }
}
```
- Details by domain**

```
{
  "result": {
    "www.test1.com": {
      "req_num": [ 118, 105, 113, 115, 114, 111, 106, 108, 118, 94, 97, 113 ]
    },
  }
}
```

```
"www.test2.com" : {  
  "req_num" : [ 118, 105, 113, 115, 114, 111, 106, 108, 118, 94, 97, 113 ]  
}  
}
```

Status Codes

Status Code	Description
200	Success response
default	Abnormal response

4 Permissions Policies and Supported Actions

4.1 Introduction

This chapter describes fine-grained permissions management for your CDN. If your HUAWEI ID does not need individual IAM users, then you may skip over this chapter.

By default, new IAM users do not have any permissions assigned. You need to add a user to one or more groups, and assign permissions policies to these groups. The user then inherits permissions from the groups it is a member of. This process is called authorization. After authorization, the user can perform specified operations on CDN based on the permissions.

You can grant users permissions using **roles** and **policies**. Roles are a type of service-based, coarse-grained authorization mechanism that defines permissions related to user responsibilities. Policies define API-based permissions for operations on specific resources under certain conditions, allowing for more fine-grained, secure access control of cloud resources.

NOTE

If you want to allow or deny the access to an API, fine-grained authorization is a good choice.

An account has all of the permissions required to call all APIs, but IAM users must have the required permissions specifically assigned. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API successfully.

Supported Actions

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

- Permissions: Statements in a policy that allow or deny certain operations.
- APIs: REST APIs that can be called in a custom policy.
- Actions: Added to a custom policy to control permissions for specific operations.
- IAM or enterprise projects: Type of projects for which an action will take effect. Policies that contain actions supporting both IAM and enterprise projects can be assigned to user groups and take effect in both IAM and Enterprise Management. Policies that only contain actions supporting IAM projects can be assigned to user groups and only take effect for IAM. Such policies will not take effect if they are assigned to user groups in Enterprise Management. For details about the differences between IAM and enterprise projects, see [Differences Between IAM Projects and Enterprise Projects](#).

 **NOTE**

The check mark (✓) indicates that an action takes effect. The cross mark (x) indicates that an action does not take effect.

CDN supports the following actions that can be defined in custom policies:

- [Example] [Statistics Analysis](#), including the authorization items corresponding to CDN statistics APIs, such as querying basic domain name statistics and querying data by region and carrier.
- [Example] [CDN Billing](#), including the authorization items corresponding to CDN billing APIs, such as querying and setting the billing option.

4.2 API Permissions

Domain Name Operations

Permission	Action	API	IAM Project	Enterprise Project
Querying domain names	cdn:configuration:queryDomains	GET /v1.0/cdn/domains	✓	✓
Creating a domain name	cdn:configuration:createDomains	POST /v1.0/cdn/domains	✓	✓
Disabling domain names	cdn:configuration:disableDomains	PUT /v1.0/cdn/domains/{domainId}/disable	✓	✓
Deleting domain names	cdn:configuration:deleteDomains	DELETE /v1.0/cdn/domains/{domainId}	✓	✓

Permission	Action	API	IAM Project	Enterprise Project
Enabling domain names	cdn:configuration:enableDomains	PUT /v1.0/cdn/domains/{domainId}/enable	√	√

Domain Name Configuration

Permission	Action	API	IAM Project	Enterprise Project
Querying origin server information	cdn:configuration:queryOriginServerInfo	GET /v1.0/cdn/bucketinfo	√	√
Querying origin pull address	cdn:configuration:queryOriginConfInfo	GET /v1.0/cdn/domains/{domainId}/originhost	√	√
Querying HTTPS configurations	cdn:configuration:queryHttpsConf	GET /v1.0/cdn/domains/{domain_id}/https-info	√	√
Querying cache rules	cdn:configuration:queryCacheRule	GET /v1.0/cdn/domains/{domainId}/cache	√	√
Querying referer filtering rules	cdn:configuration:queryReferConf	GET /v1.0/cdn/domains/{domainId}/referer	√	√
Querying IP blacklists	cdn:configuration:queryIpAcl	GET /v1.0/cdn/domains/{domain_id}/ip-acl	√	√
Querying response header information	cdn:configuration:queryResponseHeaderList	GET /v1.0/cdn/domains/{domainId}/response-header	√	√
Modifying origin server information	cdn:configuration:modifyOriginServerInfo	PUT /v1.0/cdn/domains/{domainId}/origin	√	√

Permission	Action	API	IAM Project	Enterprise Project
Modifying origin pull addresses	cdn:configuration:modifyOriginConflInfo	PUT /v1.0/cdn/domains/{domainId}/originhost	√	√
Configuring HTTPS	cdn:configuration:modifyHttpsConf	PUT /v1.0/cdn/domains/{domain_id}/https-info	√	√
Configuring cache rules	cdn:configuration:modifyCacheRule	PUT /v1.0/cdn/domains/{domainId}/cache	√	√
Configuring a referer list	cdn:configuration:modifyReferConf	PUT /v1.0/cdn/domains/{domainId}/referer	√	√
Setting IP blacklists	cdn:configuration:modifyIpAcl	PUT /v1.0/cdn/domains/{domain_id}/ip-acl	√	√
Setting response headers	cdn:configuration:createResHeader	PUT /v1.0/cdn/domains/{domainId}/response-header	√	√
Modifying origin request headers	cdn:configuration:modifyOriginConflInfo	PUT /v2/cdn/configuration/domains/{domain_name}/configs	√	√
Viewing origin request headers	cdn:configuration:queryOriginConflInfo	GET /v2/cdn/configuration/domains/{domain_name}/configs	√	√

Refreshing and Preheating

Permission	Action	API	IAM Project	Enterprise Project
Querying refreshing the preheating histories	cdn:configuration:queryCacheHistoryTask	GET /v1.0/cdn/historytasks	√	√

Permission	Action	API	IAM Project	Enterprise Project
Querying a cache refreshing or preheating task	cdn:configuration:queryCacheHistoryTask	GET /v1.0/cdn/historytasks/{history_tasks_id}/detail	√	√
Enabling the refreshing function	cdn:configuration:refreshCache	POST /v1.0/cdn/content/refresh-tasks	√	√
Enabling the preheating function	cdn:configuration:preheatCache	POST /v1.0/cdn/content/preheating-tasks	√	√

Statistics Analysis

Permission	Action	API	IAM Project	Enterprise Project
Querying domain name statistics by region and carrier	cdn:statistics:queryStats	/v1.0/cdn/statistics/domain-location-stats ShowDomainLocationStats get	√	√
Querying basic domain name statistics	cdn:statistics:queryStats	/v1.0/cdn/statistics/domain-stats ShowDomainStats get	√	√
Querying peak bandwidth data of a domain name	cdn:statistics:queryDomainSummaryDetail	/v1.0/cdn/statistics/bandwidth-calc ShowBandwidthCalc get	√	√

CDN Billing

Permission	Action	API	IAM Project	Enterprise Project
Querying the billing option	cdn:configuration:queryChargeMode	GET /v1.0/cdn/charge/charge-modes ShowChargeModes	√	×
Configuring the billing option	cdn:configuration:modifyChargeMode	PUT /v1.0/cdn/charge/charge-modes SetChargeModes	√	×

5 Appendix

5.1 Status Codes

Return Value	Description
200 OK	The request is normal.
301 Moved Permanently	The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.
302 Found	The requested resource was temporarily moved.
304 Not Modified	The requested resource has not been modified. In such a case, there is no need to retransmit the resource since the client has a previously-downloaded copy.
400 Bad Request	The server failed to process the request.
401 Unauthorized	You need to enter the 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	The method specified in the request is not allowed.
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.

Return Value	Description
408 Request Timeout	The request timed out.
409 Conflict	The request could not be processed due to a conflict.
416 Requested range not satisfiable	The requested range is invalid.
429 Too Many Requests	The client has sent more requests than the rate limit allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, the client should repeat requests after the time specified in the Retry-After header of the response expires.
500 Internal Server Error	The request is not completed because of a service error.
501 Not Implemented	The request is not completed because the server does not support the requested function.
502 Bad Gateway	The request is not completed because the request is invalid.
503 Service Unavailable	The request is not completed because the service is unavailable.
504 Gateway Timeout	A gateway timeout error occurs.

5.2 Obtaining a Project ID

Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

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

Obtaining a Project ID by Calling an API

A project ID can also be obtained by calling a specific API. For details, see [Querying Project Information](#).

The API for obtaining a project ID is **GET https://{Endpoint}/v3/projects/**. **{Endpoint}** indicates the endpoint of IAM, which can be obtained from your administrator. For details about API authentication, see [Authentication](#).

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

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

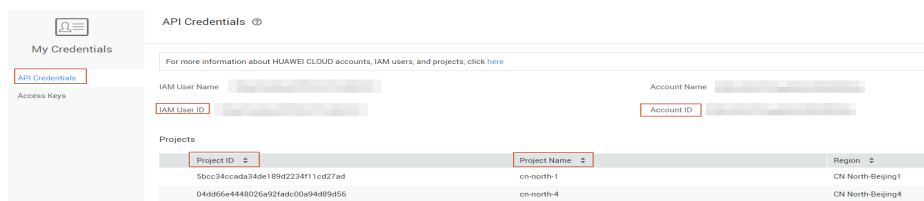
5.3 Obtaining an Account ID

An account ID is required for some URLs when an API is called. To obtain an account ID, perform the following operations:

1. Log in to the management console.
2. Hover the mouse over the username and select **My Credentials** from the drop-down list.

On the **API Credentials** page, view **Account ID**.

Figure 5-1 Obtaining an account ID



5.4 Carriers

Code	Carrier Name
airtel	Airtel
ais	AIS
att	AT&T
au	au

Code	Carrier Name
bell	Bell
bouygues	Bouygues Telecom
bt	BT
centurylink	Centurylink
chunghwa	Chunghwa Telecom
claro	Claro
dianxin	China Telecom
dt	Deutsche Telekom
etisalat	Etisalat
free	Free
jiaoyuwang	China Education and Research Network
jio	Jio
kpn	kpn
kt	KT
liantong	China Unicom
movistar	Movistar
mtn	MTN
ntt	NTT Group
o2	O2
ooredoo	Ooredoo
optus	Optus
orange	Orange
pengboshi	Dr. Peng
rogers	Rogers
sfr	SFR
singtel	Singtel
sk	SK Telecoms
sky	Sky
softbank	SoftBank
spectrum	Spectrum

Code	Carrier Name
stc	stc
swisscom	Swisscom
telcel	Telcel
telenor	Telenor
telia	Telia
telstra	Telstra
telus	Telus
three	3
ti	Telkom Indonesia
tietong	China Tietong
tim	TIM
tracfone	Tracfone
uq	UQ Communications
verizon	Verizon
viettel	Viettel
vnpt	VNPT
vodafone	Vodafone
xfinity	Xfinity
yidong	China Mobile
qita	Others

5.5 Country and Region Description

Table 5-1 Country and region codes

Country/Region	Code
China	cn
United Arab Emirates	ae
Australia	au
Brazil	br
Canada	ca

Country/Region	Code
Switzerland	ch
Germany	de
Spain	es
France	fr
United Kingdom	gb
Indonesia	id
Israel	il
India	in
Italy	it
Japan	jp
South Korea	kr
Mexico	mx
Malaysia	my
Netherlands	nl
Norway	no
Philippines	ph
Qatar	qa
Saudi Arabia	sa
Sweden	se
Singapore	sg
Thailand	th
United States	us
Vietnam	vn
South Africa	za
New Zealand	nz
Türkiye	tr
Ireland	ie
Pakistan	pk
Argentina	ar
Egypt	eg

Country/Region	Code
Others	qita

A Change History

Released On	Description
2023-12-21	<ul style="list-style-type: none">This issue is the first official release.