

Alibaba Cloud Cloud Enterprise Network

API Reference

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK .
<code>Courier font</code>	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

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1 API overview

This topic lists available APIs for Cloud Enterprise Network (CEN).

CEN instance APIs

API	Description
CreateCen	Creates a CEN instance.
ModifyCenAttribute	Modifies the name and description of a CEN instance.
DescribeCens	Views the details of all CEN instances under your account.
DeleteCen	Deletes a CEN instance.
AttachCenChildInstance	Attaches a network instance to a CEN instance.
DescribeCenAttachedChildInstances	Views the details of network instances (such as VPC, VBR, and CCN) attached to the CEN instance.
DescribeCenAttachedChildInstances	Views the network instances attached to the CEN instance.
DetachCenChildInstance	Detaches a network instance from a CEN instance.
DescribeGrantRulesToCen	Views the permissions that a network instance grants to a CEN instance.
DescribeChildInstanceRegions	Queries the regions of the network instances of the same network type.

Bandwidth package APIs

API	Description
CreateCenBandwidthPackage	Creates a bandwidth package.
AssociateCenBandwidthPackage	Associates a bandwidth package with a CEN instance.
UnassociateCenBandwidthPackage	Disassociates a bandwidth package from a CEN instance. After you disassociate a bandwidth package from a CEN instance, you can associate the bandwidth package to another CEN instance.
DescribeCenBandwidthPackages	Views all bandwidth packages under an account.
ModifyCenBandwidthPackage	Modifies the name and description of a bandwidth package.
ModifyCenBandwidthPackage	Modifies the bandwidth value of a bandwidth package.

API	Description
DescribeCenGeographicSpaceBandwidth	Queries the remaining available bandwidth of a bandwidth package.
DeleteCenBandwidthPackage	Deletes a bandwidth package.
DescribeCenGeographicSpace	Queries the connected areas.

Cross-region connection bandwidth APIs

API	Description
SetCenInterRegionBandwidth	Sets the connection bandwidth across two regions in a bandwidth package.
DescribeCenInterRegionBandwidth	Queries the cross-region connection bandwidth among different regions.
DescribeGeographicRegionMap	Views all regions in an area.

Route management APIs

API	Description
DescribeCenRegionDomainRouteEntries	Queries the route entries of a CEN instance in a region.
DescribeRouteConflict	Views conflicting route entries in a VRouter or VBR.
PublishRouteEntries	Publishes the route entries of a VPC or VBR to the attached CEN instance.
DescribePublishedRouteEntries	Queries the published routes of a VPC or VBR attached to a CEN instance.
WithdrawPublishedRouteEntries	Withdraws the routes that have been published to CEN in a VPC or VBR network instance.
DescribeCenChildInstanceRouteEntries	Queries the routes of a network instance.

Health check APIs

API	Description
EnableCenVbrHealthCheck	Enables the health check function of a VBR to ensure timely detection of faulty physical connections.
DescribeCenVbrHealthCheck	Queries the health check status of the physical connections in a region.
DisableCenVbrHealthCheck	Disables the health check function of a VBR.

Flow log APIs

API	Description
CreateFlowlog	Creates a flow log.
ModifyFlowLogAttribute	Modifies the name and description of a flow log.
DescribeFlowlogs	Queries one or more flow logs.
ActiveFlowLog	Starts a flow log. After a flow log is started, the traffic information of the specified cloud resource starts to be collected.
DeactiveFlowLog	Stops a flow log. After a flow log is stopped, the traffic information of the specified cloud resource is no longer collected.
DeleteFlowlog	Deletes a flow log.

Route map APIs

API	Description
CreateCenRouteMap	Creates a route map.
DescribeCenRouteMaps	Queries the route maps of a CEN instance.
ModifyCenRouteMap	Modifies a route map.
DeleteCenRouteMap	Deletes a route map.

Cloud service APIs

API	Description
DeleteRouteServiceInCen	Deletes the access settings of a cloud service.
DescribeRouteServicesInCen	Queries the access settings of cloud services.
ResolveAndRouteServiceInCen	Adds cloud service access settings.

PrivateZone APIs

API	Description
RoutePrivateZoneInCenToVps	Sets PrivateZone.
DescribeCenPrivateZoneRoute	Queries PrivateZone.
UnroutePrivateZoneInCenToVps	Deletes PrivateZone.

2 Call CEN APIs

Request syntax

CEN APIs use RPC style. To call CEN APIs, send HTTP GET requests.

The structure of a CEN API request is as follows:

```
http :// Endpoint /? Action = xx & Parameters
```

where,

- **Endpoint** : the endpoint of the cloud resource involved. The endpoint of CEN is `cbn . aliyuncs . com` .
- **Action** : the name of this action. For example, if you need to query created CEN instances, the action is `DescribeCens`.
- **Version** : the version of the API. The version of CEN APIs is `2017 - 09 - 12` .
- **Parameters** : the request parameters. Separate multiple parameters by using ampersands (&).

Request parameters include common parameters and API-specific parameters. Common parameters include API version and identity authentication information among other parameters.

The following is an example of calling `DescribeCens` to query created CEN instances.



Note:

Note that the following code has been edited to ease readability.

```
https :// cbn . aliyuncs . com /? Action = CreateCen
& Format = xml
& Version = 2017 - 09 - 12
& Signature = xxxx % xxxx % 3D
& SignatureM ethod = HMAC - SHA1
& SignatureN once = 1521552885 2396
& SignatureV ersion = 1 . 0
& AccessKeyI d = key - test
& Timestamp = 2012 - 06 - 01T12 : 00 : 00Z
...
```

User authentication

To maintain account security, we recommend that you use the Access Keys (AKs) of RAM users to call APIs. Before you use a RAM user to call an API, you must grant the

RAM user the corresponding permission to call the API by creating an authorization policy and attaching the policy to the RAM user.

For more information about the policies related to CEN APIs, see [#unique_52](#).

Request signature

Authentication is required by the CEN service for each API call, which is provided by the inclusion of signature information in the request.

CEN uses an AccessKeyID and AccessKeySecret pair (that is, an AK) and symmetric encryption to authenticate the identity of the request sender. AKs are certificates that Alibaba Cloud issues to Alibaba Cloud accounts and RAM users for authentication. It is similar to a logon password. The AccessKeyID is used to identify the visitor's identity. The AccessKeySecret is the key used to encrypt the signature string. The server uses the AccessKeySecret to decrypt the signature string. The AccessKeySecret must be kept confidential.

A request in an API call is signed in the following format:

```
https://endpoint/?SignatureVersion= 1 . 0 &SignatureMethod= HMAC - SHA1
&Signature= CT9X0VtwR8 6fNWSnsc6v 8YG0juE % 3D & SignatureN once =
3ee8c1b8 - 83d3 - 44af - a94f - 4e0ad82fd6 cf
```

Take the API call of DescribeCens as an example. If your AccessKeyID is `testid`, and your AccessKeySecret is `testsecret`, then, the URL in the signature is as follows:

```
http :// cbn . aliyuncs . com /? Action = DescribeCe ns
& Timestamp = 2016 - 02 - 23T12 : 46 : 24Z
& Format = XML
& AccessKeyI d = testid& Action = DescribeCe ns
& SignatureM ethod = HMAC - SHA1
& SignatureN once = 3ee8c1b8 - 83d3 - 44af - a94f - 4e0ad82fd6 cf
& Version = 2014 - 05 - 26 & SignatureV ersion = 1 . 0
```

To generate the signature, follow these steps:

1. Create the string to be signed by using the request parameter.

```
GET &% 2F & AccessKeyI d % 3Dtestid & Action % 3DDescribe
Cens & Format % 3DXML & SignatureM ethod % 3DHMAC - SHA1 &
SignatureN once % 3D3ee8c1b8 - 83d3 - 44af - a94f - 4e0ad82fd6 cf
```

```
&SignatureVersion=1.0&Timestamp=2016-02-23T12:25:30.46Z&Version=2014-05-15
```

2. Calculate the HMAC value of the string.

Add an ampersand (&) after the AccessKeySecret to add the key of the HMAC value.

In this example, the key is `testsecret&`.

```
CT9X0VtwR8 6fNWSnsc6v 8YGOjuE =
```

3. Add the signature to the request parameter.

```
http://cn.aliyuncs.com/?Action=DescribeCens
&Timestamp=2016-02-23T12:46:24Z
&Format=XML
&AccessKeyId=testid
&SignatureMethod=HMAC-SHA1
&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf
&Version=2014-05-26
&SignatureVersion=1.0
&Signature=CT9X0VtwR8 6fNWSnsc6v 8YGOjuE %3D
```


3 RAM authentication

Before using a RAM user to call an API, you must grant the RAM user the corresponding permission to call the API by creating an authorization policy and attaching the policy to the RAM user.

You can specify the resource that a RAM user has permission to operate in the authorization policy. In the authorization policy, an Alibaba Resource Name (ARN) is used to identify the resource to authorize.

Table 3-1: The following table lists the available CEN resources and the corresponding ARN formats.

Resource type	ARN format
ceninstance	acs:cen:: <i>\$accountid</i> : ceninstanc e /\$ ceninstanc eidacs : cen ::\$accountid: ceninstance
cenbandwidthpackage	acs:cen:: <i>\$accountid</i> : cenbandwidthpackage /\$ cenbandwidthpackagei dacs : cen ::\$accountid: cenbandwidthpackage/*

Table 3-2: Authentication rules

Authorization action	Authorization rule
cen: CreateCen	acs:cen:: <i>\$accountid</i> : ceninstanc e /
cen: ModifyCenAttribute	acs : cen : *:\$accountid : ceninstanc e /\$ ceninstanc eid
cen: DeleteCen	acs : cen : *:\$accountid : ceninstanc e /\$ ceninstanc eid
cen: DescribeCens	acs:cen: :\$accountid : ceninstanc e /

Authorization action	Authorization rule
cen: AttachCenChildInstance	<ul style="list-style-type: none"> • <code>acs : cen :*: \$ accountid : ceninstanc e / \$ ceninstanc eid</code> • VPC: <code>acs : vpc : \$ regionid : \$ accountid : vpc / \$ vpcid</code> • Virtual Border Router (VBR): <code>acs : vpc : \$ regionid : \$ accountid : virtualbor derrouter / \$ virtualbor derrouteri d</code>
cen: DetachCenChildInstance	<ul style="list-style-type: none"> • <code>acs : cen :*: \$ accountid : ceninstanc e / \$ ceninstanc eid</code> • VPC: <code>acs : vpc : \$ regionid : \$ accountid : vpc / \$ vpcid</code> • VBR: <code>acs : vpc : \$ regionid : \$ accountid : virtualbor derrouter / \$ virtualbor derrouteri d</code>
cen: DescribeCenAttachedChildInstances	<code>acs : cen :*: \$ accountid : ceninstanc e / \$ ceninstanc eid</code>
cen: DescribeCenRegionDomainRouteEntries	<code>acs : cen :*: \$ accountid : ceninstanc e / \$ ceninstanc eid</code>
cen: EnableCenVbrHealthCheck	<code>acs : cen :*: \$ accountid : ceninstanc e / \$ ceninstanc eidacs : vpc : \$ regionid : \$ accountid : virtualbor derrouter / \$ virtualbor derrouteri d</code>
cen: DisableCenVbrHealthCheck	<code>acs : cen :*: \$ accountid : ceninstanc e / \$ ceninstanc eidacs : vpc : \$ regionid : \$ accountid : virtualbor derrouter / \$ virtualbor derrouteri d</code>
cen: DescribeCenVbrHealthCheck	<code>acs : cen :*: \$ accountid : ceninstanc e / \$ ceninstanc eidacs : vpc : \$ regionid : \$ accountid : virtualbor derrouter / \$ virtualbor derrouteri d</code>
cen: CreateCenBandwidthPackage	<code>acs:cen:: \$ accountid : cenbandwid thpackage /</code>

Authorization action	Authorization rule
cen: DescribeCenBandwidthPackage	acs:cen::\$accountid:cenbandwidthpackage/
cen: ModifyCenBandwidthPackageAttribute	acs:cen::\$accountid:cenbandwidthpackage/cenbandwidthpackageid
cen: ModifyCenBandwidthPackageSpec	acs:cen::\$accountid:cenbandwidthpackage/\$cenbandwidthpackageid
cen: DeleteCenBandwidthPackage	acs:cen::\$accountid:bandwidthpackage/\$cenbandwidthpackageid
cen: AssociateCenBandwidthPackage	acs:cen::\$accountid:ceninstance/\$ceninstanceidacs:cen::\$accountid:bandwidthpackage/\$cenbandwidthpackageid
cen: UnassociateCenBandwidthPackage	acs:cen::\$accountid:ceninstance/\$ceninstanceidacs:cen::\$accountid:bandwidthpackage/\$cenbandwidthpackageid
cen: DescribeCenGeographicSpanRemainingBandwidth	acs:cen::\$accountid:ceninstance/\$ceninstanceid
cen: SetCenInterRegionBandwidthLimit	acs:cen::\$accountid:ceninstance/\$ceninstanceid
cen: DescribeCenInterRegionBandwidthLimits	acs:cen::\$accountid:ceninstance/\$ceninstanceid
cen: DescribeRouteConflict	<ul style="list-style-type: none"> • VPC: acs:vpc:\$regionid:\$accountid:vpc/\$vpcid • VBR: acs:vpc:\$regionid:\$accountid:virtualborderrouter/\$virtualborderrouterid

Authorization action	Authorization rule
cen: DescribeGeographicRegionMembership	No authentication required.

4 Call CEN API actions for network connections

This topic describes how to connect network instances by calling CEN API actions.

Connect network instances in the same region under the same account

To connect network instances in the same region under the same account, follow these steps:

1. Call [CreateCen](#) to create a CEN instance.
2. Call [AttachCenChildInstance](#) to attach the target network instances to the CEN instance.

Connect network instances among different regions under the same account

To connect network instances among different regions under the same account, follow these steps:

1. Call [CreateCen](#) to create a CEN instance.
2. Call [AttachCenChildInstance](#) to attach the target network instances to the CEN instance.
3. Call [CreateCenBandwidthPackage](#) to purchase a bandwidth package in the area to which the network instances belong.
4. Call [AssociateCenBandwidthPackage](#) to associate the bandwidth package with the CEN instance.
5. Call [SetCenInterRegionBandwidthLimit](#) to set cross-region connection bandwidth.

Connect network instances in the same region under different accounts

In this example, the following accounts are used:

- Account A: the owner of a CEN instance and VPC1.
- Account B: the owner of VPC2.

To connect VPC1 and VPC2, follow these steps:

1. Use account A to call [CreateCen](#) to create a CEN instance.
2. Use account A to call [AttachCenChildInstance](#) to attach VPC 1 to the CEN instance.
3. Use account B to call [#unique_55](#) to authorize account A to attach VPC2.
4. Use account A to call [AttachCenChildInstance](#) to attach VPC2 to the CEN instance.

Connect network instances among different regions under different accounts

In this example, the following accounts are used:

- Account A: the owner of a CEN instance and VPC1.
- Account B: the owner of VPC 2.

To connect VPC1 and VPC2, follow these steps:

1. Use account A to call [CreateCen](#) to create a CEN instance.
2. Use account A to call [AttachCenChildInstance](#) to attach VPC1 to the CEN instance.
3. Use account B to call [#unique_55](#) to authorize account A to attach VPC2.
4. Use account A to call [AttachCenChildInstance](#) to attach VPC2 to the CEN instance.
5. Use account A to call [CreateCenBandwidthPackage](#) to purchase a bandwidth package in the area to which VPC1 and VPC2 belong.
6. Use account A to call [AssociateCenBandwidthPackage](#) to associate the bandwidth package with the CEN instance.
7. Use account A to call [SetCenInterRegionBandwidthLimit](#) to set connection bandwidth between the two regions.

5 Common parameters

The following common request parameters must be added each time calling an API, and a request ID will be returned no matter the request is successful or not.

Common request parameters

Public request parameters are request parameter that each interface uses.

Table 5-1: Common request parameters

Name	Type	Require	Description
Format	String	No	The format of the response. Valid values: JSON (default value) XML
Version	String	Yes	The version of the API in the format of YYYY - MM - DD . Valid value: 2017 - 09 - 12
AccessKeyId	String	Yes	The AccessKey ID of the user who calls the API.
Signature	String	Yes	The request signature.
SignatureMethod	String	Yes	The algorithm used to create the request signature. Valid value: HMAC - SHA1
Timestamp	String	Yes	Request timestamp. The date format follows the ISO8601 standard and uses UTC time. The format is YYYY - MM - DDThh : mm : ssZ . Example: 2014-11-11T12:00:00Z (November 11, 2014 at 20:00:00, Beijing time)
SignatureVersion	String	Yes	The signature version to use. Valid value: 1 . 0

Name	Type	Require	Description
SignatureNonce	String	Yes	A random number for the signature to prevent from network attacks. Different random numbers must be used for different requests.

Example

```
https://cbn.aliyuncs.com/?Action=DescribeCens
&TimeStamp=2014-05-19T10%3A33%3A56Z
&Format=xml
&AccessKeyId=testid
&Action=DescribeCens
&SignatureMethod=Hmac-SHA1
&CenId= CenID
&SignatureNonce=NwDaxvLU6tFE0DVb
&Version=2016-04-28
&SignatureVersion=1.0
&Signature= Signature
```

Common response parameters

After the API service is called, the returned data adopts a uniform format. A returned HTTP status code of 2xx indicates that the call was successful. A returned HTTP status code of 4xx or 5xx indicates that the call fails. For a successful call, the primary formats of returned data are XML and JSON. When a request is sent, an external system can input parameters to specify the format of returned data. The default format is JSON.

Each time you send a request to call an interface, the system returns a unique identification code (`RequestId`), whether the request is successful.

6 Common error codes

Error code	Error message	HTTP status	Description
ParameterIllegal . AliUid	The parameter of aliUid is illegal .	400	Invalid account ID.
ParameterIllegal . Bid	The parameter of bid is illegal .	400	Invalid billing ID.
ParameterIllegal . InstanceId	The parameter of instance id is illegal .	400	Invalid instance ID.
ParameterIllegal . ChildInstanceRegionId	The parameter of child instance region id is illegal .	400	Invalid region ID of the specified network .
ParameterIllegal . ChildInstanceUid	The parameter of child instance uid is illegal .	400	The account ID of the attached network is invalid.
ParameterIllegal . ChildInstanceBid	The parameter of child instance bid is illegal .	400	The billing ID of the network is invalid.
ParameterIllegal . ChildInstanceType	The parameter of child instance type is illegal .	400	Invalid network type. The support networks are VPC and VBR.
ParameterIllegal . ChildInstanceId	The parameter of child instance id is illegal .	400	Invalid network ID.

Error code	Error message	HTTP status	Description
ParameterIllegal . BwpAliUid	The parameter of bandwidth package aliUid is illegal .	400	The account ID of the bandwidth package is invalid.
ParameterIllegal . BwpBid	The parameter of bandwidth package bid is illegal .	400	The billing ID of the bandwidth package is invalid.
ParameterIllegal . BwpInstanceId	The parameter of bandwidth package instance id is illegal .	400	Invalid bandwidth package ID.
ParameterIllegal . BandwidthLimit	The parameter of bandwidth limit is illegal .	400	Invalid bandwidth limit.
ParameterIllegal . RegionId	The parameter of region id is illegal .	400	Invalid region ID.
ParameterIllegal . VbrInstanceRegionId	The parameter of vbr instance region id is illegal .	400	Invalid VBR ID.
ParameterIllegal . VbrInstanceUid	The parameter of vbr instance uid is illegal .	400	Invalid account ID of the specified VBR.
ParameterIllegal . VbrInstanceBid	The parameter of vbr instance bid is illegal .	400	Invalid billing ID of the specified VBR

Error code	Error message	HTTP status	Description
ParameterIllegal . VbrInstanceId	The parameter of vbr instance id is illegal .	400	Invalid VBR ID.
InvalidName	The name is invalid .	400	Invalid name.
InvalidDescription	The description is invalid .	400	Invalid description.
InvalidParameter	The parameter is invalid.	400	Invalid parameters.
NameIllegal	The name is illegal	400	Invalid name.
DescriptionIllegal	The description is illegal	400	Invalid description.
ParameterMustNotNull	The parameter must not empty .	400	The required parameters are missing.
ParameterError	The parameter is error .	400	Invalid parameters.
InstanceType . NotSupport	The type of instance is not support .	400	Invalid network type. The support networks are VPC and VBR.
FilterKey . NotSupport	The filter key is not support.	400	Invalid filter key.
IdempotenceParam . NotMatch	The parameter of idempotence is not match .	400	The idempotence check fails.
MissingParameter	The parameter is missing .	400	The required parameters are missing.
GeographicSpan . NotFound	The specified geographic span is not found .	404	Invalid area.

Error code	Error message	HTTP status	Description
InventoryExceeded	The requested bandwidth has exceeded the bandwidth inventory currently available .	400	Exceeds the bandwidth quota.
Unauthorized	It ' s not authorized .	401	You do not have permissions to perform the operation.
Abs . ApiForbiddenBySubBid	User not authorized to operate on the specified resource as your account is created by another user .	403	You do not have permissions to perform the operation.
Forbidden	User not authorized to operate on the specified resource .	403	You do not have permissions for the resource to operate.
ParameterInstanceId	The specified instance id does not exist .	404	The instance does not exist.
ParameterBandwidthPackageInstanceId	The specified bandwidth package instance id does not exist .	404	The bandwidth package does not exist.

Error code	Error message	HTTP status	Description
ParameterCenInstance Id	The specified CEN instance id does not exist .	404	The CEN instance does not exist.
InvalidOperation . CenInstanceStatus	The CEN instance is not in a valid state for the operation .	409	The CEN instance is not in a valid state for the operation. Try later.
InvalidOperation . ChildInstanceStatus	The child - instance is not in a valid state for the operation .	409	The CEN instance is not in a valid state for the operation. Try later.
InvalidOperation . BwpBusinessStatus	The CEN bandwidth package is not in a valid business state for the operation .	409	The bandwidth package is in an unoperational state, please do it later.
The bandwidth package is not in a valid state for the operation . Try later .	Operation is invalid because a bandwidth package corresponding to the geographic span is not associated .	409	No interconnection areas are bound to the bandwidth package.

Error code	Error message	HTTP status	Description
InvalidOperation . BwpBandwidthExceeded	Operation is invalid because the total bandwidth limit has exceeded that of the bandwidth package .	409	The cross-region interconnection bandwidth exceeds the bandwidth limit of the bandwidth package.
InvalidOperation . VbrNotAttachedToCen	Operation is invalid because the VBR instance is not attached to the CEN instance .	409	The VBR is not attached to the CEN instance.
InvalidOperation . VbrCenAttachmentStatus	The VBR instance to CEN attachment is not in a valid state for the operation .	409	The VBR instance is not in a valid state for the operation. Try later.
InvalidOperation . ChildInstanceAlreadyAttached	Operation is invalid because the child - instance has already been attached to another CEN .	409	The network instance has already been attached to another CEN instance.
InvalidOperation . AttachedChildInstanceExist	Operation is invalid because the child - instance have not been detached .	409	The network has not been detached.

Error code	Error message	HTTP status	Description
InstanceStatus . NotSupport	The status of instance is not support .	409	Cannot perform this operation because the status of the instance is not supported.
DB . Error	db error	500	An error occurs in the database.
Operation . Blocking	Operation blocking , try again later .	500	The operation is in progress. Try later.
InternalError	Internal error .	500	An internal error occurs.

7 CEN instances

7.1 CreateCen

Creates a CEN instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	No	CreateCen	Optional. The name of this action. Value: CreateCen
ClientToken	String	No	123e4567-e89b-12d3-a456-426655440000	Optional. The client token. It is used to guarantee the idempotence of the request. The value of this parameter is generated by the client and is unique among different requests. It is 1 to 64 ASCII characters in length.
Description	String	No	Cloud Enterprise Network	Optional. The description of the CEN instance. The description must be 2 to 256 characters in length. It must start with a letter or a Chinese character, and cannot start with <code>http://</code> or <code>https://</code> .

Parameter	Type	Required ?	Example value	Description
Name	String	No	test	Optional. The name of the CEN instance. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter or a Chinese character. It cannot start with <code>http://</code> or <code>https://</code> .
Protection Level	String	No	FULL	Optional. The level of the routing overlapping function. Valid values: <ul style="list-style-type: none"> • FULL: No overlapped routes are allowed. • REDUCE: Overlapping routes are allowed. However, the overlapped routes cannot be the same.

Response parameters

Parameter	Type	Example value	Description
CenId	String	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
RequestId	String	455AC20C-7061-446A-BDBD-B3BEE0856304	The ID of the request.

Examples

Request example

```
http ( s ) : // [ Endpoint ] / ? Action = CreateCen
```

&< CommonParameters >

Response examples

XML format

```
< CreateCenResponse >
  < CenId > Cen - dc4vwznpwb obrl **** </ CenId >
  < RequestId > 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 </
  RequestId >
</ CreateCenResponse >
```

JSON format

```
{
  " RequestId ":" 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 ",
  " CenId ":" Cen - dc4vwznpwb obrl ****"
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

7.2 ModifyCenAttribute

Modifies the name and description of a CEN instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
Action	String	No	ModifyCenAttribute	Optional. The name of this action. Value: ModifyCenAttribute.

Parameter	Type	Required ?	Example value	Description
Description	String	No	cen	Optional. The description of the CEN instance. The description must be 2 to 256 characters in length. It must start with a letter or a Chinese character, and cannot start with <code>http ://</code> or <code>https ://</code> .
Name	String	No	test	Optional. The name of the CEN instance. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter or a Chinese character. It cannot start with <code>http ://</code> or <code>https ://</code> .
Protection Level	String	No	FULL	Optional. The level of the routing overlapping function. Valid values: <ul style="list-style-type: none"> · FULL: No overlapped routes are allowed. · REDUCE: Overlapped routes are allowed. However, the overlapped routes cannot be the same.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	455AC20C-7061-446A-BDBD-B3BEE0856304	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = ModifyCenA ttribute
& CenId = cen - 7qthudw0ll 6jmc ****
&< CommonPara meters >
```

Response examples

XML format

```
< ModifyCenA ttributeRe sponse >
  < RequestId > 13526224 - 5780 - 4426 - 8BDF - BC8B08700F 22 </
  RequestId >
</ ModifyCenA ttributeRe sponse >
```

JSON format

```
{
  " RequestId ":" 13526224 - 5780 - 4426 - 8BDF - BC8B08700F 22 "
}
```

Errors

HTTP status code	Error code	Error message	Description
400	InvalidOperation.EnhanceProtectionLevel	Your request to enhance CBN protection level cannot be processed. Please contact customer support to continue this operation.	The request to increase the CBN level cannot be processed. If you must perform this operation , contact the customer service.

For a list of error codes, visit the [API Error Center](#).

7.3 DescribeCens

Query all CEN instances under an account.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DescribeCens
Filter . n . Key	String	No	Filter keys. Up to five filter keys are supported. The valid value of n is [1,5]. You can provide multiple values for each filter key. The multiple values are of the "or" relation , that is, the filtering key is met as long as one value is met. The filter keys are of the "and" relation, that is, a result is found only when all filtering keys are met. The following are available filter keys: <ul style="list-style-type: none"> · CenId : The ID of the CEN instance. · Name : The name of the CEN instance. · CenBandwidthPackageId : The ID of the bandwidth package.
Filter . n . Value . m	String	No	The value of the corresponding filter key. The valid value of m is [1, 5].
PageNumber	Integer	No	The number of pages to return. The default value is 1 .
PageSize	Integer	No	The number of rows per page. The maximum value is 50 and the default value is 10 .

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
TotalCount	String	The number of queried entries.
PageNumber	Integer	The current page number.
PageSize	String	The number of entries on the current page.
Cens	List	A list of CEN instances.

Table 7-1: CEN

Name	Type	Description
CenId	String	The ID of the CEN instance.
Name	String	The name of the CEN instance.
Status	String	The status of the CEN instance, including Creating , Active , and Deleting .
CenBandwidthPackageIds	List	A list of bandwidth packages.
Description	String	The description of the CEN instance.

Examples

Request example

```
https://cnb.aliyuncs.com/?Action=DescribeCens&CommonParameters
```

Response example

• XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DescribeCensResponse>
<Cens>
  <Cen>
    <CenBandwidthPackageIds>
      <CenBandwidthPackageId>
        <CenBandwidthPackageId>cenbwp-oq2ehpxq4z
hwp790l7</CenBandwidthPackageId>
        <CenBandwidthPackageId>cenbwp-18qmj0bahl
3yskktho</CenBandwidthPackageId>
      </CenBandwidthPackageIds>
    </Cen>
  </Cens>
</DescribeCensResponse>
```

```

        </ CenBandwid thPackageI ds >
        < CenId > cen - kojok19x3j 0q6kx5qf </ CenId >
        < Descriptio n > jzwe 0207 </ Descriptio n >
        < Name > jzwen_0207 _01 </ Name >
        < Status > Active </ Status >
    </ Cen >
    < Cen >
        < CenBandwid thPackageI ds >
            < CenBandwid thPackageI d >
                < CenBandwid thPackageI d > cenbwp - 3o2zy4s6ji
g88pn325 </ CenBandwid thPackageI d >
                < CenBandwid thPackageI d > cenbwp - hq2ad760ht
rr7r5vlp </ CenBandwid thPackageI d >
            </ CenBandwid thPackageI d >
        </ CenBandwid thPackageI ds >
        < CenId > cen - mkljagz6au hbzo7ayx </ CenId >
        < Name > jzwen_cros saccount_0 1 </ Name >
        < Status > Active </ Status >
    </ Cen >
</ Cens >
< PageNumber > 1 </ PageNumber >
< PageSize > 10 </ PageSize >
< RequestId > 145F96AB - 3EE9 - 4DCA - 991C - 726F96CC57 03 </
RequestId >
< TotalCount > 4 </ TotalCount >
</ DescribeCe nsResponse >

```

• JSON format

```

{
  " PageNumber ": 1 ,
  " Cens ": {
    " Cen ": [
      {
        " Name ": " jzwen_0207 _01 ",
        " Status ": " Active ",
        " Descriptio n ": " jzwe 0207 ",
        " CenBandwid thPackageI ds ": {
          " CenBandwid thPackageI d ": [
            " cenbwp - oq2ehpxq4z hwp790l7 ",
            " cenbwp - 18qmj0bahl 3yskktho "
          ]
        }
      },
      " CenId ": " cen - kojok19x3j 0q6kx5qf "
    ],
    {
      " Name ": " jzwen_cros saccount_0 1 ",
      " Status ": " Active ",
      " CenBandwid thPackageI ds ": {
        " CenBandwid thPackageI d ": [
          " cenbwp - 3o2zy4s6ji g88pn325 ",
          " cenbwp - hq2ad760ht rr7r5vlp "
        ]
      }
    },
    " CenId ": " cen - mkljagz6au hbzo7ayx "
  }
],
" TotalCount ": 4 ,
" PageSize ": 10 ,
" RequestId ": " 145F96AB - 3EE9 - 4DCA - 991C - 726F96CC57 03 "

```

}

7.4 DeleteCen

Delete a CEN instance.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DeleteCen
CenId	String	Yes	The ID of the CEN instance.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https://cn-north-1.aliyuncs.com/?Action=DeleteCen
&CenId=cen-04sgjpvkc062ahzd26
&CommonParameters
```

Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DeleteCenResponse>
  <RequestId>5903EE99-D542-4E14-BC65-AAC1CB2D3D03</RequestId>
</DeleteCenResponse>
```

- JSON format


```
" RequestId ":" 5903EE99 - D542 - 4E14 - BC65 - AAC1CB2D3D 03 "
```

7.5 AttachCenChildInstance

Attach a network (VPC or VBR) to a CEN instance. The attached networks (VPC or VBR) can communicate with each other.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: AttachCenChildInstance
CenId	String	Yes	The ID of the CEN instance.
ChildInstanceId	String	Yes	The ID of the network to attach.
ChildInstanceType	String	Yes	The type of the network to attach.
ChildInstanceRegionId	String	Yes	The ID of the region where the network is located. The ID of the region where the network is located.
ChildInstanceOwnerId	LONG	No	The account ID to which the network belongs.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https://cn.aliyuncs.com/?Action=AttachCenChildInstance
&CenId=vpc-hp3kz27b1u-v9hsmm9vqi-v
&ChildInstanceId=vpc-2zekilet77-fssihllb9s-7
&ChildInstanceRegionId=cn-beijing
&ChildInstanceType=vpc
&CommonParameters
```

Response example

- XML format

```
<? xml version =" 1 . 0 " encoding =" UTF - 8 "? >
< AttachCenC hildInstan ceResponse >
  < RequestId > A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A </
  RequestId >
</ AttachCenC hildInstan ceResponse >
```

- JSON format

```
" RequestId ":" A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A "
```

7.6 DescribeCenAttachedChildInstanceAttribute

Query the detailed information of networks (VPC, VBR, CCN) attached to the CEN instance.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DescribeCenAttachedChildInstances
CenId	String	Yes	The ID of the CEN instance.
ChildInstanceRegionId	String	Yes	The region ID of the attached network.
ChildInstanceId	String	Yes	The ID of the attached network to query.
ChildInstanceType	String	Yes	The type of the attached network.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
CenId	String	The ID of the CEN instance.
ChildInstanceId	String	The ID of the network.

Name	Type	Description
ChildInstanceType	String	The type of the network.
ChildInstanceRegionId	String	The region ID of the network.
ChildInstanceOwnerId	String	The ID of the user to whom the network belongs.
Status	String	The attaching status of the network.
ChildInstanceAttachTime	String	The time when the network was attached.
ChildInstanceName	String	The name of the network.

Examples

Request example

```
http://cen.aliyuncs.com/?Action=DescribeCenAttachedChildInstanceAttribute
&ChildInstanceRegionId=cn-hangzhou-test-306
&CenId=cn-3cub0ges01xvmefma
&ChildInstanceType=VPC
&ChildInstanceId=vpc-sa17uy0itv-gxiq9gbmiju
&CommonParameters
```

Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DescribeCenAttachedChildInstanceAttribute>
  <Status>Attached</Status>
  <ChildInstanceOwnerId>1196226963299553</ChildInstanceOwnerId>
  <ChildInstanceId>vpc-2zebdboka7d7t37vo2i7n</ChildInstanceId>
  <RequestId>ADD98358-D265-4060-87CB-A2427F5A8944</RequestId>
  <ChildInstanceName>defaultvpc</ChildInstanceName>
  <ChildInstanceRegionId>cn-beijing</ChildInstanceRegionId>
  <CenId>cen-5mv960yjhja0dh7qsb</CenId>
  <ChildInstanceAttachTime>2018-07-30T07:53Z</ChildInstanceAttachTime>
  <ChildInstanceType>VPC</ChildInstanceType>
```

```
</ DescribeCe nAttachedC hildInstan ceAttribut e >
```

• JSON format

```
{
  " Status ": " Attached ",
  " ChildInsta nceOwnerId ": " 1196226963 299553 ",
  " ChildInsta nceId ": " vpc - 2zebdboka7 d7t37vo2i7 n ",
  " RequestId ": " ADD98358 - D265 - 4060 - 87CB - A2427F5A89 44 ",
  " ChildInsta nceName ": " defaultvpc ",
  " ChildInsta nceRegionI d ": " cn - beijing ",
  " CenId ": " cen - 5mv960yjhj a0dh7qsb ",
  " ChildInsta nceAttachT ime ": " 2018 - 07 - 30T07 : 53Z ",
  " ChildInsta nceType ": " VPC "
}}
```

7.7 DescribeCenAttachedChildInstances

Queries the networks associated with a CEN instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required ?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmcx****	The ID of the CEN instance.
Action	String	No	DescribeCenAttachedChildInstances	Optional. The name of this action. Value: DescribeCenAttachedChildInstances
ChildInstanceRegionId	String	No	us-west-1	Optional. The region to which the network to be queried belongs.

Parameter	Type	Required ?	Example value	Description
ChildInstanceType	String	No	VPC	Optional. The type of the associated network. Valid values: <ul style="list-style-type: none"> • VPC • VBR • CCN
PageNumber	Integer	No	1	Optional. The page number. Default value: 1
PageSize	Integer	No	10	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10

Response parameters

Parameter	Type	Example value	Description
ChildInstances			A list of networks associated with the CEN instance.
CenId	String	cen-7qthudw0ll6jmx****	The ID of the CEN instance.
ChildInstanceAttachTime	String	2018-10-16T08:47Z	The time when the network is associated with the CEN instance.
ChildInstanceId	String	vpc-m5ex5mr548eb5f6****	The ID of the network.
ChildInstanceOwnerId	Long	123456789	The ID of the account to which the network belongs.
ChildInstanceRegionId	String	cn-qingdao	The ID of the region to which the network belongs.

Parameter	Type	Example value	Description
ChildInstanceType	String	VPC	The type of the network. Valid values: <ul style="list-style-type: none"> • VPC • VBR • CCN
Status	String	attaching	The status of the network. Valid values: <ul style="list-style-type: none"> • attaching: The network is being associated. • attached: The network is already associated with the CEN instance. • detaching: The network is being disassociated from the CEN instance.
PageNumber	Integer	1	The current page number.
PageSize	Integer	12	The number of entries per page.
RequestId	String	CDE065A6-D24D-4CE9-A45D-3BBD45B22311	The ID of the request.
TotalCount	Integer	1	The total number of queried entries.

Examples

Request example

```

http ( s )://[ Endpoint ]/? Action = DescribeCenAttachedChildInstances
& CenId = cen - 7qthudw0ll 6jmcx ****
&< CommonParameters >
    
```

Response examples

XML format

```

< DescribeCenAttachedChildInstancesResponse >
    
```

```

< PageNumber > 1 </ PageNumber >
< ChildInstances >
  < ChildInstance >
    < Status > Attached </ Status >
    < ChildInstanceOwnerId > 123456789 </ ChildInstanceOwnerId >
    < ChildInstanceId > vpc - hp3kz27b1u v9hsmm9 ****</ ChildInstanceId >
    < ChildInstanceRegionId > cn - huhehaote </ ChildInstanceRegionId >
    < CenId > cen - kojok19x3j 0q6k ****</ CenId >
    < ChildInstanceType > VPC </ ChildInstanceType >
  </ ChildInstance >
  < ChildInstance >
    < Status > Attached </ Status >
    < ChildInstanceOwnerId > 123456789 </ ChildInstanceOwnerId >
    < ChildInstanceId > vpc - gw85r5kr8u rw957sz ****</ ChildInstanceId >
    < ChildInstanceRegionId > eu - central - 1 </ ChildInstanceRegionId >
    < CenId > cen - kojok19x3j 0q6k ****</ CenId >
    < ChildInstanceType > VPC </ ChildInstanceType >
  </ ChildInstance >
</ ChildInstances >
< TotalCount > 3 </ TotalCount >
< PageSize > 10 </ PageSize >
< RequestId > 50F8E0AB - A225 - 41C0 - AC88 - FFB51A4F5C 72 </ RequestId >
</ DescribeCenAttachedChildInstancesResponse >

```

JSON format

```

{
  "PageNumber": 1,
  "ChildInstances": {
    "ChildInstance": [
      {
        "Status": "Attached",
        "ChildInstanceOwnerId": "123456789",
        "ChildInstanceId": "vpc - hp3kz27b1u v9hsmm9 ****",
        "ChildInstanceRegionId": "cn - huhehaote",
        "CenId": "cen - kojok19x3j 0q6k ****",
        "ChildInstanceType": "VPC"
      },
      {
        "Status": "Attached",
        "ChildInstanceOwnerId": "123456789",
        "ChildInstanceId": "vpc - gw85r5kr8u rw957sz ****",
        "ChildInstanceRegionId": "eu - central - 1",
        "CenId": "cen - kojok19x3j 0q6k ****",
        "ChildInstanceType": "VPC"
      }
    ]
  },
  "TotalCount": 3,
  "PageSize": 10,
  "RequestId": "50F8E0AB - A225 - 41C0 - AC88 - FFB51A4F5C 72"
}

```

}

Errors

For a list of error codes, visit the [API Error Center](#).

7.8 DetachCenChildInstance

Detach a specified network from a CEN instance.

Request parameters

Name	Type	Required	Description
Action	String	Required	The action to perform. Valid value: DetachCenChildInstance
CenId	String	Required	The ID of the CEN instance.
Childinstanceid	String	Yes	The ID of the network to attach.
ChildInstanceType	String	Required	The type of the network to attach.
ChildInstanceRegionId	String	Required	The ID of the region where the network is located.
ChildInstanceOwnerId	Long	No	The account ID to which the network belongs.
CenOwnerId	Long	No	The account ID to which the CEN instance belongs.

Response parameters

Name	Type	Required
RequestId	String	The ID of the request.

Examples

Request example

```
https://cnb.aliyuncs.com/?Action=DetachCenChildInstance
&CenId=vpc-hp3kz27b1u-v9hsmm9vqi-v
&ChildInstanceid=vpc-2zekilet77-fssihllb9s-7
&ChildInstanceRegionId=cn-beijing
```



```
& ChildInstanceType = vpc
& CommonParameters
```

Response example

- XML format

```
<? xml version = " 1 . 0 " encoding = " UTF - 8 " ? >
< DetachChildInstanceResponse >
  < RequestId > 5903EE99 - D542 - 4E14 - BC65 - AAC1CB2D3D 03 </
  RequestId >
</ DetachChildInstanceResponse >
```

- JSON format

```
{
  " RequestId ": " 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 "
}
```

7.9 DescribeChildInstanceRegions

Queries the regions of the network instances of the same network type.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	No	DescribeChildInstanceRegions	Optional. The name of this action. Value: DescribeChildInstanceRegions
ProductType	String	No	VPC	Optional. The type of the network instances. Valid values : <ul style="list-style-type: none"> • VPC: Virtual Private Cloud • VBR: Virtual Border Router • CCN: Cloud Connect Network

Response parameters

Parameter	Type	Example value	Description
Regions			The details of the region.
LocalName	String	China (Hangzhou)	The name of the region.
RegionId	String	cn-hangzhou	The ID of the region.
RequestId	String	A278B8A6-A5B8-4FDE-9F70-95F0F6A1D68A	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCh ildInstanc
eRegions
&< CommonPara meters >
```

Response example

XML format

```
< DescribeCh ildInstanc eRegionsRe sponse >
  < RequestId > D5CEED59 - 36AA - 47CC - 9D81 - 16F71C46BD 80 </
  RequestId >
  < Regions >
    < Region >
      < RegionId > cccn - hangzhou </ RegionId >
      < LocalName > China ( Hangzhou )</ LocalName >
    </ Region >
  </ Regions >
</ DescribeCh ildInstanc eRegionsRe sponse >
```

JSON format

```
{
  " RequestId ":" D5CEED59 - 36AA - 47CC - 9D81 - 16F71C46BD 80 ",
  " Regions ":{
    " Region ":[
      {
        " RegionId ":" cn - hangzhou ",
        " LocalName ":" China ( Hangzhou )"
      }
    ]
  }
}
```

}

Errors

For a list of error codes, visit the [API Error Center](#).

7.10 DescribeGrantRulesToCen

Queries the authorization relationship between the associated networks and a CEN instance in a specified region.



Note:

This API is a VPC API. Therefore, the endpoint of this API is `vpc.aliyuncs.com`. The API version is 2016-04-28.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmx****	The ID of the CEN instance.
ProductType	String	Yes	VPC	The product type.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the network belongs.
Action	String	No	DescribeGrantRulesToCen	Optional. The name of this action. Value: DescribeGrantRulesToCen

Response parameters

Parameter	Type	Example value	Description
GrantRules			The details of the authorization relationship.

Parameter	Type	Example value	Description
CenId	String	cen-7qthudw0ll6jmccc****	The ID of the CEN instance.
ChildInstanceId	String	vpc-bp18sth14qii3pnvc****	The ID of the associated network (VPC or VBR).
ChildInstanceOwnerId	Long	1231579085529123	The ID of the account to which the network belongs.
ChildInstanceRegionId	String	cn-hangzhou	The ID of the region to which the network belongs.
ChildInstanceType	String	VPC	The type of the network. Valid values: <ul style="list-style-type: none"> • VPC • VBR • CCN
RequestId	String	330714D1-F335-4CE2-9D29-F54445937387	The ID of the request.

Examples

Request example

```
http ( s ) : // [ Endpoint ] / ? Action = DescribeGrantRulesToCen
& CenId = cen - 7qthudw0ll 6jmxx ****
& ProductType = VPC
& RegionId = cn - hangzou
&< CommonParameters >
```

Response examples

XML format

```
< DescribeGrantRulesToCenResponse >
  < TotalCount > 1 </ TotalCount >
  < PageNumber > 1 </ PageNumber >
  < CbnGrantRules >
    < CbnGrantRule >
      < CbnInstanceId > cbn - 6ugox0vl0z ff4g ****</
CbnInstanceId >
      < CbnOwnerId > 101664776xxxx </ CbnOwnerId >
      < CreationTime > 2018 - 01 - 18T11 : 49 : 09Z </
CreationTime >
```

```

    </ CbnGrantRu le >
  </ CbnGrantRu les >
  < PageSize > 10 </ PageSize >
  < RequestId > 330714D1 - F335 - 4CE2 - 9D29 - F544459373 87 </
RequestId >
</ DescribeGr antRulesTo CenRespons e >

```

JSON format

```

{
  " PageNumber ": 1 ,
  " CbnGrantRu les ":{
    " CbnGrantRu le ":[
      {
        " CreationTi me ":" 2018 - 01 - 18T11 : 49 : 09Z ",
        " CbnInstanc eId ":" cbn - 6ugox0vl0z ff4g ****",
        " CbnOwnerId ":" 101664776x xxx "
      }
    ]
  },
  " TotalCount ": 1 ,
  " PageSize ": 10 ,
  " RequestId ":" 330714D1 - F335 - 4CE2 - 9D29 - F544459373 87 "
}

```

Errors

For a list of error codes, visit the [API Error Center](#).

7.11 GrantInstanceToCen

Grants the permission of a network instance to a CEN instance.

Limits

Before you can attach a network instance under an account to a CEN instance under another account, you must use this API to authorize the CEN instance from the account where the network instance is located.



Note:

When you call this API, you must use `vpc . aliyuncs . com` as the domain name. The API version is the one released on April 28, 2016.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	Yes	GrantInstanceToCen	The name of this action. Value: GrantInstanceToCen.
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance to be authorized.
CenOwnerId	Long	Yes	123456789	The UID of the account to which the CEN instance belongs.
InstanceId	String	Yes	vpc-uf6o8d1dj8sjwxi6o****	The ID of the network instance.
InstanceType	String	Yes	VPC	The type of the network instance. Valid values: <ul style="list-style-type: none"> • VPC: VPC • VBR: VBR • CCN: CCN
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the network instance belongs.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = GrantInstanceToCen
& CenId = cen - 7qthudw0ll 6jmc ****
& CenOwnerId = 123456789
& InstanceId = vpc - uf6o8d1dj8 sjwxi6o ****
& RegionId = cn - hangzhou
&< CommonParameters >
```

Response example

XML format

```
< GrantInstanceToCenResponse >
  < RequestId > 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 </
  RequestId >
</ GrantInstanceToCenResponse >
```

JSON format

```
{
  " RequestId ":" 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

7.12 RevokeInstanceFromCen

Revokes the authorization of a network instance from a CEN instance.

Limits

- When you call this API, you must use `vpc . aliyuncs . com` as the domain name.
- The API version must be the one released on April 28, 2016.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	Yes	RevokeInstanceFromCen	The name of this action. Value: RevokeInstanceFromCen.
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance from which you want to revoke the authorization of the network instance.
CenOwnerId	Long	Yes	123456789	The UID of the account to which the CEN instance belongs.
InstanceId	String	Yes	vpc-uf6o8d1dj8sjwxi6o****	The ID of the network instance.
InstanceType	String	Yes	VPC	The type of the network instance. Valid values: <ul style="list-style-type: none"> · VPC: VPC · VBR: VBR · CCN: CCN
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the network instance belongs.

Parameter	Type	Required ?	Example value	Description
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = RevokeInstanceFromCen
& CenId = cen - 7qthudw0ll 6jmc ****
& CenOwnerId = 123456789
& InstanceId = vpc - uf6o8d1dj8 sjwxi6o ****
& RegionId = cn - hangzhou
&< CommonParameters >
```

Response example

XML format

```
< RevokeInstanceFromCenResponse >
  < RequestId > 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 </
  RequestId >
</ RevokeInstanceFromCenResponse >
```

JSON format

```
{
  " RequestId ":" 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 "
```

```
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

8 Bandwidth packages

8.1 CreateCenBandwidthPackage

Creates a bandwidth package.

API description

Before you can use a CEN instance to connect network instances that belong to different regions, you must create a bandwidth package according to the area where the network instances belong.

An area consists of one or more Alibaba Cloud regions. CEN areas include Mainland China, Asia Pacific, North America, Europe, and Australia. The following table shows the CEN areas and their respective regions.


Area	Regions
Mainland China	China (Qingdao), China (Beijing), China (Zhangjiakou), China (Shenzhen), China (Hangzhou), China (Shanghai) china (Hohhot)
North America	US (Silicon Valley), US (Virginia)
Asia Pacific	China (Hong Kong), Singapore, Malaysia (Kuala Lumpur), Japan (Tokyo), Indonesia (Jakarta), India (Mumbai)
Europe	Germany (Frankfurt), UK (London)
Australia	Australia (Sydney)

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
Bandwidth	Integer	Yes	2	The peak bandwidth of the bandwidth package. Unit: Mbps. Minimum value: 2.
Geographic RegionAId	String	Yes	China	The area to which the network instance belongs. Valid values: China North-America Asia-Pacific Europe Australia
Geographic RegionBId	String	Yes	China	The area to which the network instance belongs. Valid values: China North-America Asia-Pacific Europe Australia
Action	String	No	CreateCenBandwidthPackage	The name of this action. Value: CreateCenBandwidthPackage
ClientToken	String	No	SSJFLAFHHF HFF- SJSJFBWHHE- SHHFJJDBD	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.

Parameter	Type	Required ?	Example value	Description
Name	String	No	cen	The name of the bandwidth package. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter, but cannot start with <code>http://</code> or <code>https://</code> .
Description	String	No	Bandwidth Package	The description of the bandwidth package.
BandwidthPackageChargeType	String	No	PREPAY	The billing method of the bandwidth package. Valid values: <ul style="list-style-type: none"> POSTPAY: pay-as-you-go PREPAY: subscription <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;">  Note: POSTPAY is only supported by the international site. </div>
Period	Integer	No	1	The duration of the bandwidth package. The default value is 1.
PricingCycle	String	No	Month	The billing cycle of the bandwidth package. Valid values: <ul style="list-style-type: none"> Month (default): billed by month Year: billed by year

Parameter	Type	Required ?	Example value	Description
AutoPay	Boolean	No	true	Indicates whether the bandwidth package is paid automatically. Valid values: <ul style="list-style-type: none"> • true: The bandwidth package is paid automatically. • false (default): The bandwidth package is paid manually.

Response parameters

Parameter	Type	Example value	Description
CenBandwidthPackageId	String	cenbwp-4c2zaavbvh5fx****	The ID of the bandwidth package.
CenBandwidthPackageOrderId	String	201564200040390	The order ID of the bandwidth package.
RequestId	String	6547D2DA-4383-46A0-9E39-BA324492AD9F	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = CreateCenBandwidthPackage
& Bandwidth = 2
& GeographicRegionAId = China
& GeographicRegionBId = China
&< CommonParameters >
```

Response example

XML format

```
< CreateCenBandwidthPackageResponse >
  < RequestId > E4B345CD - 2CBA - 4881 - AF6D - E5D9BAE1CA 7B </
  RequestId >
  < CenBandwidthPackageOrderId > 2015642000 40390 </
  CenBandwidthPackageOrderId >
```

```
< CenBandwidthPackageId > Cenbwp - stb2axpqzz ko2j ****</
CenBandwidthPackageId >
</ CreateCenBandwidthPackageResponse >
```

JSON format

```
{
  "CenBandwidthPackageOrderId": "2015642000 40390 ",
  "RequestId": "E4B345CD - 2CBA - 4881 - AF6D - E5D9BAE1CA 7B ",
  "CenBandwidthPackageId": "Cenbwp - stb2axpqzz ko2j ****"
}
```

Errors

HTTP status code	Error code	Error message	Description
400	Unsupported.ChargeType	The charge type is not supported.	This payment type is not supported.

For a list of error codes, visit the [API Error Center](#).

8.2 AssociateCenBandwidthPackage

Associates a bandwidth package with a CEN instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenBandwidthPackageId	String	Yes	Cenbwp-4c2zaavbv5fx****	The ID of the bandwidth package.
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
Action	String	No	AssociateCenBandwidthPackage	Optional. The name of this action. Value: AssociateCenBandwidthPackage

Response parameters

Parameter	Type	Example value	Description
RequestId	String	0C2EE7A8-74D4-4081-8236-CEBDE3BBCF50	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = AssociateC enBandwid
hPackage
& CenBandwid thPackageI d = cenbwp - 4c2zaavbvh 5fx ****
& CenId = cen - 7qthudw0ll 6jmc ****
&< CommonPara meters >
```

Response examples

XML format

```
< AssociateC enBandwid hPackageRe sponse >
  < RequestId > 5903EE99 - D542 - 4E14 - BC65 - AAC1CB2D3D 03 </
  RequestId >
</ AssociateC enBandwid hPackageRe sponse >
```

JSON format

```
{
  " RequestId ":" 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF 50 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

8.3 UnassociateCenBandwidthPackage

Unbind a bandwidth package from a CEN instance. You can bind the bandwidth package to another CEN instance after it is unbounded.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform: Valid value: Unassociat eCenBandwi dthPackage

Name	Type	Required	Description
CenId	String	Yes	The ID of the CEN instance.
CenBandwidthPackageId	String	Yes	The ID of the bandwidth package.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https://cnb.aliyuncs.com/?Action=UnassociateCenBandwidthPackage
&CenId=cen-04sgjpvkc062ahzd26
&CenBandwidthPackageId=Cenbwp-stb2axpqzzko2ja
&CommonParameters
```

Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<UnassociateCenBandwidthPackageResponse>
  <RequestId>5903EE99-D542-4E14-BC65-AAC1CB2D3D03</RequestId>
</UnassociateCenBandwidthPackageResponse>
```

- JSON format

```
{
  "RequestId": "0C2EE7A8-74D4-4081-8236-CEBDE3BBCF50"
}
```

8.4 ModifyCenBandwidthPackageAttribute

Modifies the name and description of a bandwidth package.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required ?	Example value	Description
CenBandwidthPackageId	String	Yes	cenbwp-4c2zaavbv5fx****	The ID of the bandwidth package.
Action	String	No	ModifyCenBandwidthPackageAttribute	Optional. The name of this action. Value: ModifyCenBandwidthPackageAttribute
Description	String	No	Bandwidth packages	Optional. The description of the bandwidth package. The description must be 2 to 256 characters in length. It must start with a letter or a Chinese character, and cannot start with <code>http://</code> or <code>https://</code> .
Name	String	No	test	Optional. The name of the bandwidth package. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter or a Chinese character. It cannot start with <code>http://</code> or <code>https://</code> .

Response parameters

Parameter	Type	Example value	Description
RequestId	String	13526224-5780-4426-8ADF-BC8B08700F23	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = ModifyCenB andwidthPa
ckageAttri bute
& CenBandwid thPackageI d = cenbwp - 4c2zaavbvh 5fx ****
&< CommonPara meters >
```

Response examples

XML format

```
< ModifyCenB andwidthPa ckageAttri buteRespon se >
  < RequestId > 5903EE99 - D542 - 4E14 - BC65 - AAC1CB2D3D 03 </
  RequestId >
</ ModifyCenB andwidthPa ckageAttri buteRespon se >
```

JSON format

```
{
  " RequestId ":" 13526224 - 5780 - 4426 - 8ADF - BC8B08700F 23 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

8.5 ModifyCenBandwidthPackageSpec

Modify the bandwidth of a bandwidth package.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: ModifyCenB andwidthPa ckageSpec
CenBandwid thPackageI d	String	Yes	The ID of the bandwidth package.
Bandwidth	String	Yes	The bandwidth in Mbps set for the bandwidth package. The minimum value is 2 Mbps.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https://cnb.aliyuncs.com/?Action=ModifyCenBandwidthPackageSpec
&CenBandwidthPackageId=cenbwp-oq2ehpxq4zhwp790l7
&Bandwidth=10
&CommonParameters
```

Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<ModifyCenBandwidthPackageSpecResponse>
  <RequestId>5903EE99-D542-4E14-BC65-AAC1CB2D3D03</RequestId>
</ModifyCenBandwidthPackageSpecResponse>
```

- JSON format

```
"RequestId": "0C2EE7A8-74D4-4081-8236-CEBDE3BBCF50"
```

8.6 DescribeCenGeographicSpanRemainingBandwidth

Queries the remaining bandwidth of a specified bandwidth package.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-nh98vzx8gfhlwn****	The ID of the CEN instance to which the bandwidth package belongs.

Parameter	Type	Required ?	Example value	Description
GeographicRegionAId	String	Yes	China	The first area to which the bandwidth package is used to connect. Valid values: China North-America Asia-Pacific Europe Australia.
GeographicRegionBId	String	Yes	North-America	The second area to which the bandwidth package is used to connect. Valid values: China North-America Asia-Pacific Europe Australia.
Action	String	No	DescribeCenGeographicSpanRemainingBandwidth	The name of this action. Value: DescribeCenGeographicSpanRemainingBandwidth.
PageNumber	Integer	No	1	The page number. Default value: 1.
PageSize	Integer	No	10	The number of entries per page for a paged query. Maximum value: 50. Default value: 10.

Response parameters

Parameter	Type	Example value	Description
RemainingBandwidth	Long	2	The remaining bandwidth of the bandwidth package.
RequestId	String	E4B345CD-2CBA-4881-AF6D-E5D9BAE1CA7B	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCe nGeographi
cSpanRemai ningBandwi dth
& CenId = cen - nh98vzx8gf hlwn ****
& Geographic RegionAId = China
& Geographic RegionBId = North - America
&< CommonPara meters >
```

Response example

XML format

```
< DescribeCe nGeographi cSpanRemai ningBandwi dthRespons e >
  < RequestId > E4B345CD - 2CBA - 4881 - AF6D - E5D9BAE1CA 7B </
  RequestId >
  < RemainingB andwidth > 2 </ RemainingB andwidth >
</ DescribeCe nGeographi cSpanRemai ningBandwi dthRespons e >
```

JSON format

```
{
  " RequestId ":" E4B345CD - 2CBA - 4881 - AF6D - E5D9BAE1CA 7B ",
  " RemainingB andwidth ":" 2 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

8.7 DeleteCenBandwidthPackage

Deletes a bandwidth package.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required ?	Example value	Description
CenBandwidthPackageId	String	Yes	cenbwp-4c2zaavbvh5f42****	The ID of the bandwidth package to be deleted.

Parameter	Type	Required?	Example value	Description
Action	String	No	DeleteCenBandwidthPackage	Optional. The name of this action. Value: DeleteCenBandwidthPackage

Response parameters

Parameter	Type	Example value	Description
RequestId	String	C0245BEF-52AC-44A8-A776-EF96FD26A5CA	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DeleteCenBandwidthPackage
& CenBandwidthPackageId = cenbwp - 4c2zaavbvh 5f42 ****
&< CommonParameters >
```

Response examples

XML format

```
< DeleteCenBandwidthPackageResponse >
  < RequestId > 13526224 - 5780 - 4426 - 8BDF - BC8B08700F 22 </
  RequestId >
</ DeleteCenBandwidthPackageResponse >
```

JSON format

```
{
  " RequestId ":" C0245BEF - 52AC - 44A8 - A776 - EF96FD26A5 CA "
```

```
}

```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden. Release	Forbidden to release a PREPAY bandwidth instance within validity period.	Deletion of Subscription bandwidth packages is not allowed.

For a list of error codes, visit the [API Error Center](#).

8.8 DescribeCenBandwidthPackages

Queries bandwidth packages under your account.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required ?	Example value	Description
Action	String	No	DescribeCenBandwidthPackages	The name of this action. Value: DescribeCenBandwidthPackages

Parameter	Type	Required?	Example value	Description
Filter . N . Key	String	No	status	<p>The filter key (filter condition). You can specify up to five filter keys. The following filter keys are supported.</p> <ul style="list-style-type: none"> • CenId: Cloud Enterprise Network (CEN) instance ID • Status: bandwidth package status. Valid values: Idle InUse • CenBandwidthPackageId: bandwidth package ID • Name: bandwidth package name
Filter . N . Value . N	RepeatList	No	Idle	<p>The value of the filter key. You can specify multiple values for a filter key. These multiple values are of the OR relation, which means that this filter condition is met when one of the specified values is matched.</p>
IncludeReservationData	Boolean	No	true	<p>Indicates whether to include renewal data. Valid values:</p> <ul style="list-style-type: none"> • true: Return renewal data in the response. • false: Do not return renewal data in the response.

Parameter	Type	Required ?	Example value	Description
IsOrKey	Boolean	No	false	<p>The relationship between filter keys. Valid values:</p> <ul style="list-style-type: none"> · false (default): The filter keys are of the AND relation, which means that a bandwidth package is returned only when it matches all the filter conditions. · true: The filter keys are of the OR relation, which means that a bandwidth package is returned as long as it matches one of the filter conditions.
PageNumber	Integer	No	1	The page number. Default value: 1
PageSize	Integer	No	2	The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10

Response parameters

Parameter	Type	Example value	Description
CenBandwidthPackages			The list of bandwidth packages.
CenBandwidthPackage			The details of the bandwidth package.
Bandwidth	Long	2	The peak bandwidth of the bandwidth package.

Parameter	Type	Example value	Description
BandwidthPackageChargeType	String	PREPAY	The billing method of the bandwidth package.
BusinessStatus	String	Normal	The status of the bandwidth package. <ul style="list-style-type: none"> • Normal: The bandwidth package is normal. • FinancialLocked: The bandwidth package is locked because of an overdue bill. • SecurityLocked: The bandwidth package is locked for security reasons.
CenBandwidthPackageId	String	cenbwp-4c2zaavbv5x****	The ID of the bandwidth package.
CenIds		cen-xxjsjfkffkfkfjkf****	The list of CEN instances associated with the bandwidth package.
CenId			The details of the CEN instance associated with the bandwidth package.
CreationTime	String	2019-02-01T11:14Z	The time when the bandwidth package was created. This parameter takes the ISO 8601 format. Format: YYYY-MM-DDThh:mmZ
Description	String	cen	The description of the bandwidth package.
ExpiredTime	String	2999-09-08T16:00Z	The time when the bandwidth package expires.

Parameter	Type	Example value	Description
GeographicRegionAId	String	china	One of the connected areas of the bandwidth package.
GeographicRegionBId	String	north-america	The other connected area of the bandwidth package.
GeographicSpanId	String	north-america_china	The area ID of the cross-area connection.
HasReservationData	String	false	Indicates whether renewal data is involved. <ul style="list-style-type: none"> · true: Renewal data is involved. · false: No renewal data is involved.
IsCrossBorder	Boolean	false	Indicates whether the bandwidth package is a cross-border bandwidth package. <ul style="list-style-type: none"> · false: The bandwidth package is not a cross-border bandwidth package. · true: The bandwidth package is a cross-border bandwidth package.
Name	String	test	The name of the bandwidth package.
OriginInterRegionBandwidthLimits			The list of of the connected regions.
OriginInterRegionBandwidthLimit			The details of the connected regions.
BandwidthLimit	String	1	The peak bandwidth of the connected regions.

Parameter	Type	Example value	Description
GeographicSpanId	String	north-america_china	The area ID of the cross-area connection to which the connected regions belong.
LocalRegionId	String	cn-hangzhou	The ID of the local region.
OppositeRegionId	String	us-west-1	The ID of the peer region.
Status	String	InUse	The association status of the bandwidth package. <ul style="list-style-type: none"> Idle: The bandwidth package is not associated with any CEN instance. InUse: The bandwidth package is associated with one or more CEN instances.
PageNumber	Integer	1	The current page number.
PageSize	Integer	2	The number of entries per page.
RequestId	String	9D7E2400-2755-4AF5-9B73-12565E4F73A0	The ID of the request.
TotalCount	Integer	2	The total number of entries.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCenBandwidth
Packages
&< CommonParameters >
```

Response example

XML format

```
< DescribeCenBandwidthPackageResponse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 5 </ TotalCount >
```

```

    < PageSize > 10 </ PageSize >
    < RequestId > 9D7E2400 - 2755 - 4AF5 - 9B73 - 12565E4F73 A0 </
    RequestId >
    < CenBandwidthPackages >
      < CenBandwidthPackage >
        < CreationTime > 2018 - 02 - 07T02 : 19Z </ CreationTime >
      >
        < Status > InUse </ Status >
        < GeographicRegionBId > china </ GeographicRegionBId >
        < BusinessStatus > Normal </ BusinessStatus >
        < BandwidthPackageCharacterType > PREPAY </ BandwidthP
    ackageCharacterType >
        < GeographicRegionAId > china </ GeographicRegionAId >
        < CenBandwidthPackageId > cenbwp - oq2ehpxq4z hwp7
    ****</ CenBandwidthPackageId >
        < CenIds >
          < CenId > cen - kojok19x3j 0q6k ****</ CenId >
        </ CenIds >
        < ExpiredTime > 2018 - 03 - 07T16 : 00Z </ ExpiredTime >
        < Bandwidth > 1 </ Bandwidth >
      </ CenBandwidthPackage >
    </ CenBandwidthPackages >
  </ DescribeCenBandwidthPackageResponse >

```

JSON format

```

{
  "PageNumber": 1,
  "TotalCount": 5,
  "PageSize": 10,
  "RequestId": "9D7E2400 - 2755 - 4AF5 - 9B73 - 12565E4F73 A0",
  "CenBandwidthPackages": {
    "CenBandwidthPackage": [
      {
        "CreationTime": "2018 - 02 - 07T02 : 19Z",
        "Status": "InUse",
        "GeographicRegionBId": "china",
        "BandwidthPackageCharacterType": "PREPAY",
        "BusinessStatus": "Normal",
        "GeographicRegionAId": "china",
        "CenBandwidthPackageId": "cenbwp - oq2ehpxq4z hwp7 ****",
        "ExpiredTime": "2018 - 03 - 07T16 : 00Z",
        "CenIds": {
          "CenId": [
            "cen - kojok19x3j 0q6k ****"
          ]
        },
        "Bandwidth": 1
      }
    ]
  }
}

```

Errors

For a list of error codes, visit the [API Error Center](#).

8.9 DescribeCenGeographicSpans

Queries the connected areas.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	No	DescribeCenGeographicSpans	Optional. The name of this action. Value: DescribeCenGeographicSpans
GeographicSpanId	String	No	china-china	Optional. The connected areas.
PageNumber	Integer	No	1	Optional. The page number. Default value: 1
PageSize	Integer	No	10	Optional. The number of entries per page. Maximum value: 50. Default value: 10

Response parameters

Parameter	Type	Example value	Description
GeographicSpanModels			The details of the connected areas.
GeographicSpanId	String	china-china	The connected areas.
LocalGeoRegionId	String	china	One of the two connected areas.
OppositeGeoRegionId	String	china	The other area.
PageNumber	Integer	1	The current page number.
PageSize	Integer	12	The number of entries per page.

Parameter	Type	Example value	Description
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The request ID.
TotalCount	Integer	20	The total number of area connections.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCe nGeographi cSpans
&< CommonPara meters >
```

Response example

XML format

```
< DescribeCe nGeographi cSpansResp onse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 09780287 - BC24 - 4164 - 8334 - 773432E326 96 </
  RequestId >
  < Geographic SpanModels >
    < Geographic SpanModel >
      < OppositeGe oRegionId > china </ OppositeGe oRegionId >
      < LocalGeoRe gionId > asia - pacific </ LocalGeoRe gionId >
      < Geographic SpanId > china_asia - pacific </ Geographic
  SpanId >
    </ Geographic SpanModel >
  </ Geographic SpanModels >
</ DescribeCe nGeographi cSpansResp onse >
```

JSON format

```
{
  " PageNumber ": 1 ,
  " TotalCount ": 1 ,
  " PageSize ": 10 ,
  " RequestId ":" 09780287 - BC24 - 4164 - 8334 - 773432E326 96 ",
  " Geographic SpanModels ":{
    " Geographic SpanModel ":[
      {
        " OppositeGe oRegionId ":" china ",
        " Geographic SpanId ":" china_asia - pacific ",
        " LocalGeoRe gionId ":" asia - pacific "
      }
    ]
  }
}
```



```
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

9 Cross-region interconnection bandwidth

9.1 SetCenInterRegionBandwidthLimit

Configure the cross-regional interconnection bandwidth. Ensure that you have added the interconnection regions to the CEN instance before configuring the bandwidth.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: SetCenInterRegionBandwidthLimit
CenId	String	Yes	The ID of the CEN instance.
LocalRegionId	String	Yes	The ID of the local region.
OppositeRegionId	String	Yes	The ID of the other interconnected region.
BandwidthLimit	Long	Yes	The bandwidth configured for the interconnected regions communication.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https://cnb.aliyuncs.com/?Action=SetCenInterRegionBandwidthLimit
&CenId=cen-mkljagz6au-hbzo7ayx
&LocalRegionId=cn-beijing
&OppositeRegionId=cn-shenzhen
&BandwidthLimit=1
&CommonParameters
```

Response example

- XML format

```
<? xml version = " 1 . 0 " encoding = " UTF - 8 " ? >
< SetCenInterRegionBandwidthLimitsResponse >
  < RequestId > 530BC816 - F575 - 412A - AAB2 - 435125D263 28 </
  RequestId >
</ SetCenInterRegionBandwidthLimitsResponse >
```

- JSON format

```
" RequestId ":" 530BC816 - F575 - 412A - AAB2 - 435125D263 28 ",
```

9.2 DescribeCenInterRegionBandwidthLimits

Query the cross-regional interconnection bandwidths set for different regions.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DescribeCenInterRegionBandwidthLimits
CenId	String	No	The ID of the CEN instance.
PageNumber	Integer	No	The number of pages to return. The default value is 1 .
PageSize	Integer	No	The number of rows per page. The maximum value is 50 and the default value is 10 .

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
TotalCount	String	The number of queried entries.
PageNumber	Integer	The current page number.
PageSize	String	The number of entries on the current page.

Name	Type	Description
CenInterRegionBandwidthLimits	List	A list of configured bandwidths.

Table 9-1: CenInterRegionBandwidthLimit

Name	Type	Description
CenId	String	The ID of the CEN instance.
LocalRegionId	String	The ID of the local region.
OppositeRegionId	String	The ID of the peer region.
Status	String	The status of the cross-regional interconnection bandwidth, including Active and Modifying .
BandwidthLimit	Long	The cross-regional interconnection bandwidth set for the two regions.

Examples

Request example

```
https://cbn.aliyuncs.com/?Action=DescribeCenInterRegionBandwidthLimits
&CommonParameters
```

Response example

- XML format

```
<? xml version="1.0" encoding="UTF-8" ? >
< DescribeCenInterRegionBandwidthLimitsResponse >
  < CenInterRegionBandwidthLimits >
    < CenInterRegionBandwidthLimit >
      < Status > Active </ Status >
      < LocalRegionId > cn-hangzhou-667 </
LocalRegionId >
      < CenId > Cen-to55jjgdq4pfvby3d </ CenId >
      < OppositeRegionId > cn-hangzhou-668 </
OppositeRegionId >
      < BandwidthLimit > 1000 </ BandwidthLimit >
    </ CenInterRegionBandwidthLimit >
  </ CenInterRegionBandwidthLimits >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > C4CF2E97-5C04-4A9E-B908-BE95FF68C7B2 </
RequestId >
```

```
</ DescribeCe nInterRe gionBandwidt hLimitsRes ponse >
```

- JSON format

```
" CenInterRe gionBandwi dthLimits ":{
  " CenInterRe gionBandwi dthLimit ":[
    {
      Status ":" Active ",
      LocalRegio nId ":" cn - hangzhou - 667 ",
      CenId ":" Cen - to55jjgdqd 4pfvby3d ",
      OppositeRe gionId ":" cn - hangzhou - 668 ",
      BandwidthL imit ": 1000
    }
  ]
}

" PageNumber ": 1 ,
" TotalCount ": 1 ,
" PageSize ": 10 ,
" RequestId ":" 187507F9 - D955 - 41A5 - 98EB - 7E4471F9D8 E7 "
```

9.3 DescribeGeographicRegionMembership

Query regions in a specified area.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DescribeGe ographicRe gionMember ship
Geographic RegionId	String	Yes	The ID of the specified area. Valid value: <ul style="list-style-type: none"> • china • asia - pacific • europe • australia • north - america
PageNumber	Integer	No	The number of pages to return. The default value is 1 .
PageSize	Integer	No	The number of rows per page. The maximum value is 50 and the default value is 10 .

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
TotalCount	String	The number of queried entries.
PageNumber	Integer	The current page number.
PageSize	String	The number of entries contained on the current page.
RegionIds	List	A list of regions in the specified area.

Examples

Request example

```
https://cn-north-1.aliyuncs.com/?Action=DescribeGeographicRegionMemberships
&GeographicRegionId=north-america
&CommonParameters
```

Response example

• XML format

```
<?xml version="1.0" encoding="UTF-8"? >
<DescribeGeographicRegionMembershipsResponse >
  <PageNumber > 1 </PageNumber >
  <PageSize > 10 </PageSize >
  <RegionIds >
    <RegionId >
      <RegionId > us-west-1 </RegionId >
    </RegionId >
    <RegionId >
      <RegionId > us-east-1 </RegionId >
    </RegionId >
  </RegionIds >
  <RequestId > DC9EB0C9-60AF-4A09-A36C-608F70130274 </
RequestId >
  <TotalCount > 2 </TotalCount >
  <TotalCount > 6 </TotalCount >
</DescribeGeographicRegionMembershipsResponse >
```

• JSON format

```
{
  "RegionIds":{
    "RegionId":[
      {
        "RegionId":"us-west-1"
      },
      {
        "RegionId":"us-east-1"
      }
    ]
  }
}
```

```
} ,  
" PageNumber ": 1 ,  
" TotalCount ": 2 ,  
" PageSize ": 10 ,  
" RequestId ":" DC9EB0C9 - 60AF - 4A09 - A36C - 608F701302 74 "  
}
```

10 Manage routes

10.1 DescribeCenRegionDomainRouteEntries

Query the detailed information of CEN routes, including from which region and which network instance this route is learned.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DescribeCenRegionDomainRouteEntries
CenId	String	Yes	The ID of the CEN instance to query.
CenRegionId	String	Yes	The ID of the region to query.
PageNumber	Integer	No	The number of pages to return. The default value is 1.
PageSize	Integer	No	The number of rows per page. The maximum value is 50 and the default value is 10.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
TotalCount	String	The number of queried entries.
PageNumber	Integer	The current page number.
PageSize	String	The number of entries on the current page.
CenRouteEntries	List	The detailed information of CEN route entries.

Table 10-1: CenRouteEntry

Name	Type	Description
DestinationCidrBlock	String	The destination CIDR block of the route entry.
Type	String	The type of the route entry. The default value is CEN.
NextHopInstanceId	String	The ID of the next hop.
NextHopType	String	The type of the next hop, VPC or VBR.
NextHopRegionId	String	The ID of the region where the next hop is located.

Examples

Request example

```
https://cbn.aliyuncs.com/?Action=DescribeCenRegionDomainRouteEntries
&CenId=cen-04sgjpvkc062ahzd26
&CenRegionId=cn-hangzhou
&CommonParameters
```

Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DescribeCenRegionDomainRouteEntriesResponse>
  <Routes>
    <Route>
      <Source>
        <Routetype>System</routetype>
        <RouterType>VRouter</RouterType>
        <Dstcidrblock>10.10.100.0/24</dstcidrblock>
        <Aliyunidkp>1617256082593208</aliyunidkp>
        <RouterId>vpc-qn1eves08n7sk62vsj3ka</RouterId>
        <RegionId>cn-hangzhou-668</RegionId>
        <Nexthop></Nexthop>
        <RouteTableId>vtb-qn1bindq4q7m30obbcyj0</RouteTableId>
        <PropagationScope>CEN</PropagationScope>
        <NexthopType>local</NexthopType>
      </Source>
      <Routetype>CEN</routetype>
      <Dstcidrblock>10.10.100.0/24</dstcidrblock>
      <Nexthop></Nexthop>
```

```

        < Conflicts />
      </ Route >
    </ Routes >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > C4CF2E97 - 5C04 - 4A9E - B908 - BE95FF68C7 B2 </
  RequestId >
</ DescribeCe nRegionDom ainRouteEn triesRespo nse >

```

- **JSON format**

```

{
  " Routes ":{
    " Route ":[
      {
        " conflicts ":[],
        " Maid ": " maid / 24 ",
        " nexthop ":"",
        " Routetype ": " CEN ",
        " source ":{
          " aliyunIdkp ":" 1617256082 593208 ",
          " dstCidrBlo ck ":" 10 . 10 . 100 . 0 / 24 ",
          " nexthop ":"",
          " nexthopTyp e ":" local ",
          " Propagatio n scope ": " CEN ",
          " regionId ":" cn - hangzhou - 668 ",
          " routeTable Id ":" vtb - qn1bindq4q
7m30obbcyj 0 ",
          " Routetype ": " system ",
          " routerId ":" vpc - qn1eves08n 7sk62vsj3k a
",
          " routerType ":" VRouter "
        }
      ]
    },
    " PageNumber ": 1 ,
    " TotalCount ": 1 ,
    " PageSize ": 10 ,
    " RequestId ":" 187507F9 - D955 - 41A5 - 98EB - 7E4471F9D8 E7 "
  }
}

```

10.2 DescribeRouteConflict

Queries conflicting route entries in a specified router (VRouter or VBR).

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
ChildInstanceId	String	Yes	vpc-bp18sth14qii3pn****	The ID of the network.
ChildInstanceRegionId	String	Yes	cn-hangzhou	The ID of the region to which the network belongs.
ChildInstanceRouteTableId	String	Yes	vtb-bp174d1gje79u1g4t****	The ID of the route table.
ChildInstanceType	String	Yes	VBR	The type of the router. Valid values: <ul style="list-style-type: none"> · VRouter: Virtual routers · VBR: Virtual Border Routers
Action	String	No	DescribeRouteConflict	Optional. The name of this action. Value: DescribeRouteConflict
DestinationCidrBlock	String	No	172.16.xx.xx/24	Optional. The destination CIDR block.
PageNumber	Integer	No	1	Optional. The current page number.
PageSize	Integer	No	2	Optional. The number of entries per page.

Response parameters

Parameter	Type	Example value	Description
PageNumber	Integer	1	The current page number.
PageSize	Integer	1	The number of entries per page.

Parameter	Type	Example value	Description
RequestId	String	B6C11547-2D56-4EEC-A8D5-FDC5A53E53D0	The ID of the request.
RouteConflicts			The details of conflicting route entries.
DestinationCidrBlock	String	172.16.xx.xx/24	The destination CIDR block of the route entry.
InstanceId	String	vbr-bp174d1gje79u1****	The ID of the router.
InstanceType	String	VBR	The type of the router. Valid values: <ul style="list-style-type: none"> • VRouter: Virtual routers • VBR: Virtual Border Routers
RegionId	String	cn-hangzhou	The region ID.
Status	String	conflict	The cause of route exceptions. Valid values: <ul style="list-style-type: none"> • conflict: The route entry is in conflict with other route entries. • overflow: The number of router entries in other networks exceeds the limit. • prohibited: The route entry is not allowed by VBR.
TotalCount	Integer	2	The total number of queried entries.

Examples

Request example

```
http ( s ) : // [ Endpoint ] / ? Action = DescribeRouteConflict
& ChildInstanceId = vpc - bp18sth14q ii3pn ****
& ChildInstanceRegionId = cn - hangzhou
& ChildInstanceRouteTableId = vtb - bp174d1gje 79u1g4t ****
& ChildInstanceType = VBR
```

```
&< CommonParameters >
```

Response examples

XML format

```
< DescribeRouteConflictResponse >
  < PageNumber > 1 </ PageNumber >
  < PageSize > 10 </ PageSize >
  < RequestId > B6C11547 - 2D56 - 4EEC - A8D5 - FDC5A53E53 D0 </
  RequestId >
  < RouteConflicts >
    < RouteConflict ></ RouteConflict >
  </ RouteConflicts >
  < TotalCount > 0 </ TotalCount >
</ DescribeRouteConflictResponse >
```

JSON format

```
{
  " PageNumber ": 1 ,
  " TotalCount ": 0 ,
  " PageSize ": 10 ,
  " RequestId ":" B6C11547 - 2D56 - 4EEC - A8D5 - FDC5A53E53 D0 ",
  " RouteConflicts ":{
    " RouteConflict ":[ ]
  }
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

10.3 PublishRouteEntries

Publish the route entries in the attached VPC and VBR to CEN.

Router entry list

The following table lists the route entries that can be published to CEN:

Route entry	Network the route entry belongs to	Published to CEN by default?
The route entry pointing to an ECS instance	VPC	No
The route entry pointing to a VPN Gateway	VPC	No
The route entry pointing to a HaVip	VPC	No
VPC system route entries	VPC	Yes

Route entry	Network the route entry belongs to	Published to CEN by default?
The route entry pointing to a local IDC	VBR	Yes
BGP route entries	VBR	Yes

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: PublishRouteEntries
CenId	String	Yes	The ID of the CEN instance where the route entry is published.
ChildInstanceRegionId	String	Yes	The ID of the region where the attached VBR or VPC is located.
ChildInstanceId	String	Yes	The ID of the attached network (VPC or VBR).
ChildInstanceType	String	Yes	The type of the network. Valid value: <ul style="list-style-type: none"> • VPC • VBR
ChildInstanceRouteTableId	String	Yes	The route table of the attached VBR or VPC.
DestinationCidrBlock	String	Yes	The destination CIDR block of the route entry to publish.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https://cnb.aliyuncs.com/?Action=PublishRouteEntries
&ChildInstanceRegionId=cn-hangzhou-667
&CenId=cnb-3rh17kwhs6-208rej85
```

```
& DestinationCidrBlock = 192 . 168 . 10 . 0 / 24
& ChildInstanceRouteTableId = vtb - il7qut3mjg tlcblk2ie3 1
& ChildInstanceVpcId = vpc - il7krrmtp6 elewp6426k r
& ChildInstanceType = VPC
& CommonRequestParameters
```

Response example

• **XML format**

```
<? xml version = " 1 . 0 " encoding = " UTF - 8 "? >
< PublishRouteEntriesResponse >
  < RequestId > FBDB18D8 - E91E - 4978 - 8D6C - 6E2E3EE101 330 </
  RequestId >
</ PublishRouteEntriesResponse >
```

• **JSON format**

```
{
  " RequestId ": " FBDB18D8 - E91E - 4978 - 8D6C - 6E2E3EE101 33
}
```

10.4 DescribePublishedRouteEntries

Query the publish status of the route entries in the attached VPC or VBR.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DescribePublishedRouteEntries
CenId	String	Yes	The ID of the CEN instance to query.
ChildInstanceRegionId	String	Yes	The ID of the region where the attached network (VBR or VPC) is located.
ChildInstanceVpcId	String	Yes	The ID of the network (VBR or VPC).
ChildInstanceType	String	Yes	The attached network type: <ul style="list-style-type: none"> • VPC • VBR • CCN

Name	Type	Required	Description
ChildInstanceRouteTableId	String	No	The ID of the route table of the VPC or VBR.
DestinationCidrBlock	String	No	The destination CIDR block of the route entry to query.
PageNumber	Integer	No	The number of pages to return. The default value is 1 .
PageSize	Integer	No	The number of rows per page. The maximum value is 50 and the default value is 10 .

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
TotalCount	String	The number of queried entries.
PageNumber	Integer	The current page number.
PageSize	String	The number of entries on the current page.
PublishRouteEntries	List	The detailed information of the queried route entry in the specified region.

Table 10-2: PublishRouteEntries

Name	Type	Description
ChildInstanceRouteTableId	String	The ID of the route table.
DestinationCidrBlock	String	The destination CIDR block of the route entry.
NextHopType	String	Type of the next hop. Values: <ul style="list-style-type: none"> • Instance : ECS instance (Default) • HaVip : High Availability Virtual IP (HaVip) • RouterInterface : Router interface

Name	Type	Description
RouteType	String	Type of the route entry. Values: <ul style="list-style-type: none"> System : System route entry Custom : High Availability Virtual IP (HaVip) BGP : BGP route entry
OperationalMode	Boolean	Whether to allow the route entry to be published or removed to or from CEN: <ul style="list-style-type: none"> true : Allow the route entry to be published or removed false : Do not allow
NextHopId	String	The ID of the next hop.
PublishStatus	String	The publish status of the route entry in CEN: <ul style="list-style-type: none"> Published : Published NonPublished : Not published
Conflicts	List	A list of conflicted route entries.

Table 10-3: RouteConflictSetType

Name	Type	Description
DestinationCidrBlock	String	The destination CIDR block of the conflicted route entry.
RegionId	String	The ID of the region where the conflicted route entry is located.
InstanceId	String	The conflicted instance ID.
InstanceType	String	The type of the network.

Name	Type	Description
Status	String	Reasons of exceptions: <ul style="list-style-type: none"> · conflict : The route entry is conflicted with others. · overflow : The number of the route entry in other network exceeds the default limit. · prohibited : The route entry is not allowed in VBR.

Example

Request example

```
https://cn-hangzhou.aliyuncs.com/?Action=DescribePublishedRouteEntries
&ChildInstanceRegionId=cn-hangzhou-667
&CenId=cbn-3rh17kwhs6-208rej85
&ChildInstanceId=vpc-il7krrmtp6-ewlp6426kr
&ChildInstanceType=VPC
&CommonRequestParameters
```

Response example

· XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DescribeRouteConflictResponse>
  <PageNumber>1</PageNumber>
  <PageSize>10</PageSize>
  <RequestId>B6C11547-2D56-4EEC-A8D5-FDC5A53E53D0</RequestId>
  <RouteConflicts>
    <RouteConflict/>
  </RouteConflicts>
  <TotalCount>0</TotalCount>
</DescribeRouteConflictResponse>
```

· JSON format

```
{
  "TotalCount": 2,
  "PublishedRouteEntries": {
    "PublishedRouteEntries": [
      {
        "DestinationCidrBlock": "100.64.0.0/10",
        "NextHopId": "",
        "NextHopType": "service",
        "ChildInstanceRouteTableId": "vtb-il7qut3mjgtlcbpk2ie3-1",
        "PublishStatus": "NonPublished",
        "RouteConflicts": {
          "RouteConflicts": []
        },
        "RouteType": "System"
      }
    ]
  }
}
```

```

    },
    {
      "DestinationCidrBlock": "192.168.10.0/24",
      "NextHopId": "",
      "NextHopType": "local",
      "ChildInstanceRouteTableId": "vtb-il7qut3mjg
tlcbpk2ie3-1",
      "PublishStatus": "Published",
      "RouteConflicts": {
        "RouteConflicts": []
      },
      "RouteType": "System"
    }
  ]
},
"PageNumber": 1,
"RequestId": "FF1A7B2A-677F-4F71-96EA-6002B329F4-37",
"PageSize": 10
}

```

10.5 WithdrawPublishedRouteEntries

Withdraws a route of a VPC or Virtual Border Router (VBR) from the attached Cloud Enterprise Network (CEN) instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-sxfjkfjkjfein****	The ID of the CEN instance.
ChildInstanceId	String	Yes	vpc-rj9gt5nll27onu7****	The ID of the attached network (VPC or VBR).
ChildInstanceRegionId	String	Yes	cn-hangzhou	The ID of the region to which the attached network belongs.
ChildInstanceRouteTableId	String	Yes	vtb-bp174d1gje79u1g4t****	The ID of the route table of the attached network.

Parameter	Type	Required ?	Example value	Description
ChildInstanceType	String	Yes	VPC	The type of the network. Valid values: <ul style="list-style-type: none"> · VPC: Virtual Private Cloud · VBR: Virtual Border Router
DestinationCidrBlock	String	Yes	172.16.xx.xx/24	The destination CIDR block of the route to be withdrawn.
Action	String	No	WithdrawPublishedRouteEntries	Optional. The name of this action. Value: WithdrawPublishedRouteEntries

Response parameters

Parameter	Type	Example value	Description
RequestId	String	FBDB18D8-E91E-4978-8D6C-6E2E3EE10133	The ID of the request.

Examples

Request example

```

http ( s )://[ Endpoint ]/? Action = WithdrawPublishedRouteEntries
& CenId = cen - sxjfkjfkj fiein ****
& ChildInstanceId = vpc - rj9gt5nll2 7onu7 ****
& ChildInstanceRegionId = cn - hangzhou
& ChildInstanceRouteTableId = vtb - bp174d1gje 79u1g4t ****
& ChildInstanceType = VPC
& DestinationCidrBlock = 172 . 16 . xx . xx / 24
&< CommonParameters >

```

Response examples

XML format

```

< PublishRouteEntriesResponse >
  < RequestId > FBDB18D8 - E91E - 4978 - 8D6C - 6E2E3EE101 330 </
  RequestId >

```

```
</ PublishRouteEntriesResponse >
```

JSON format

```
{
  "RequestId": "FBDB18D8 - E91E - 4978 - 8D6C - 6E2E3EE101 33 "
}
```

Errors

HTTP status code	Error code	Error message	Description
400	InvalidOperation.UnsupportedNextHopType	The specified next hop type is not supported by this operation.	The specified next hop type is not supported.
400	ParameterIllegal.CenInstanceId	The parameter of CEN instance id is illegal.	The ID of the CEN instance is incorrect.
400	ParameterIllegal.ChildInstanceRegionId	The parameter of child instance region id is illegal.	The region to which the network belongs is incorrect.
409	InvalidOperation.ChildInstanceStatus	The child-instance is not in a valid state for the operation.	The network is being processed. Please try later.
409	InvalidOperation.CenInstanceStatus	The CEN instance is not in a valid state for the operation.	The CEN instance is being processed. Please try later.
400	ParameterIllegal.ChildInstanceType	The parameter of child instance type is illegal.	The network type is incorrect.

For a list of error codes, visit the [API Error Center](#).

10.6 DescribeCenChildInstanceRouteEntries

Queries the route entries of a network instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
ChildInstanceId	String	Yes	vpc-bp18sth14qii3pnvo****	The ID of the network instance.
ChildInstanceRegionId	String	Yes	cn-hangzhou	The ID of the region to which the network instance belongs.
ChildInstanceType	String	Yes	vpc	The type of the network instance. Valid values: <ul style="list-style-type: none"> · VPC: Virtual Private Cloud · VBR: Virtual Border Router · CCN: Cloud Connect Network
Action	String	No	DescribeCenChildInstanceRouteEntries	Optional. The name of this action. Value: DescribeCenRegionDomainRouteEntries
PageNumber	Integer	No	1	Optional. The page number. Default value: 1
PageSize	Integer	No	10	Optional. The number of entries per page. Maximum value: 50. Default value: 10

Parameter	Type	Required ?	Example value	Description
Status	String	No	Active	<p>Optional. The status of the route entry. Valid values:</p> <ul style="list-style-type: none"> · Active: Indicates that the route entry is available. · Backup: Indicates that the route entry works as a backup. · Rejected: Indicates that the route entry is rejected. · Prohibited: Indicates that the route entry is prohibited. · All: Indicates a route in any state.

Response parameters

Parameter	Type	Example value	Description
CenRouteEntries			A list of route entries.
AsPaths		65501	The AS Path of the route entry. It is a BGP route attribute.
CenRouteMapRecords			The details of the route map.
RegionId	String	cn-hangzhou	The ID of the region to which the route map is applied.
RouteMapId	String	cenrmap-w4yf7toozfol3q****	The ID of the route map.
Communities		65501:1	The communities of the route entry . It is a BGP route attribute.
Conflicts			The details of conflicting route entries.

Parameter	Type	Example value	Description
DestinationCidrBlock	String	192.168.1.0/24	The destination CIDR block of the conflicting route entries.
InstanceId	String	ecs-xxdjakjdak hfkfka****	The ID of the conflicting network instance.
InstanceType	String	ECS	The type of the conflicting network instance.
RegionId	String	cn-hangzhou	The ID of the region to which the conflicting instance belongs.
Status	String	conflict	The cause of the conflict. Valid values: <ul style="list-style-type: none"> • conflict: The route entry conflicts with other route entries. • overflow: The number of route entries in the route table of other network instances exceeds the limit. • prohibited: The route entry is not allowed by VBR policies.
DestinationCidrBlock	String	192.168.3.0/24	The destination CIDR block of the route entry.
NextHopInstanceId	String	vpc-o6woh5s494 zueq40v****	The instance ID of the next hop.
NextHopRegionId	String	cn-hangzhou	The ID of the region to which the next hop instance belongs.
NextHopType	String	VPC	The type of the next hop instance. Valid values: <ul style="list-style-type: none"> • VPC: Virtual Private Cloud • VBR: Virtual Border Router

Parameter	Type	Example value	Description
OperationalMode	Boolean	true	Indicates whether the route entry is allowed to be published to or withdrawn from CEN. Valid value: <ul style="list-style-type: none"> · true: The route entry is allowed to be published to or withdrawn from CEN. · False: The route entry is not allowed to be published to or withdrawn from CEN.
PublishStatus	String	Published	Indicates whether the route entry is published to CEN. <ul style="list-style-type: none"> · Published: The route entry is published to CEN. · NonPublished: The route entry is not published to CEN.
RouteTableId	String	vtb-bp1r9pvl4xen8s9ju****	The ID of the route table.
Status	String	Active	The status of the route entry.
Type	String	CBN	The type of the route entry.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The request ID.
TotalCount	Integer	30	The total number of route entries.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCenChildInstanceRouteEntries
& CenId = cen - 7qthudw0ll 6jmc ****
& ChildInstanceId = vpc - bp18sth14q ii3pnvo ****
```

```
& ChildInstanceRegionId = cn - hangzhou
& ChildInstanceType = vpc
<& CommonParameters >
```

Response example

XML format

```
< DescribeCenChildInstanceRouteEntriesResponse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 4 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 17A57456 - EF48 - 419D - 9AE6 - 9B03D99960 18 </
RequestId >
  < CenRouteEntries >
    < CenRouteEntry >
      < NextHopInstanceId > vbr - bp13gtbhd0pfqg6s ****</
NextHopInstanceId >
      < CenRouteMapRecords >
        < CenRouteMapRecord >
          < RouteMapId > cenmap - 4lcjxzo2zy qjd3 ****</
RouteMapId >
          < RegionId > cn - hangzhou </ RegionId >
        </ CenRouteMapRecord >
      </ CenRouteMapRecords >
      < OperationalMode > false </ OperationalMode >
      < Status > Active </ Status >
      < AsPaths ></ AsPaths >
      < Communities ></ Communities >
      < Type > CEN </ Type >
      < RouteTableId > vtb - bp1r9pvl4x en8s9ju ****</
RouteTableId >
      < NextHopRegionId > cn - hangzhou </ NextHopRegionId >
      < NextHopType > VBR </ NextHopType >
      < Conflicts ></ Conflicts >
      < DestinationCidrBlock > 10 . 0 . 0 . 0 / 24 </ Destinatio
nCidrBlock >
    </ CenRouteEntry >
    < CenRouteEntry >
      < CenRouteMapRecords ></ CenRouteMapRecords >
      < OperationalMode > false </ OperationalMode >
      < Status > Active </ Status >
      < AsPaths ></ AsPaths >
      < Communities ></ Communities >
      < Type > System </ Type >
      < RouteTableId > vtb - bp1r9pvl4x en8s9ju ****</
RouteTableId >
      < NextHopType > service </ NextHopType >
      < Conflicts ></ Conflicts >
      < DestinationCidrBlock > 100 . 64 . 0 . 0 / 10 </
DestinationCidrBlock >
      < PublishStatus > NonPublished </ PublishStatus >
    </ CenRouteEntry >
    < CenRouteEntry >
      < CenRouteMapRecords ></ CenRouteMapRecords >
      < OperationalMode > true </ OperationalMode >
      < Status > Active </ Status >
      < AsPaths ></ AsPaths >
      < Communities ></ Communities >
      < Type > System </ Type >
      < RouteTableId > vtb - bp1r9pvl4x en8s9ju ****</
RouteTableId >
```

```

    < NextHopTyp e > local </ NextHopTyp e >
    < Conflicts ></ Conflicts >
    < Destinatio nCidrBlock > 172 . 16 . 0 . 0 / 24 </
Destinatio nCidrBlock >
    < PublishSta tus > Published </ PublishSta tus >
  </ CenRouteEn try >
  < CenRouteEn try >
    < NextHopIns tanceId > vbr - bp13gtbhdp 0pfqg6s ****</
NextHopIns tanceId >
    < CenRouteMa pRecords >
      < CenRouteMa pRecord >
        < RouteMapId > cenmap - 4lcjxzo2zy qjd3 ****</
RouteMapId >
          < RegionId > cn - hangzhou </ RegionId >
          </ CenRouteMa pRecord >
        </ CenRouteMa pRecords >
        < Operationa lMode > false </ Operationa lMode >
        < Status > Active </ Status >
        < AsPaths ></ AsPaths >
        < Communitie s ></ Communitie s >
        < Type > CEN </ Type >
        < RouteTable Id > vtb - bp1r9pvl4x en8s9ju ****</
RouteTable Id >
          < NextHopReg ionId > cn - hangzhou </ NextHopReg ionId >
          < NextHopTyp e > VBR </ NextHopTyp e >
          < Conflicts ></ Conflicts >
          < Destinatio nCidrBlock > 192 . 168 . 2 . 0 / 24 </
Destinatio nCidrBlock >
        </ CenRouteEn try >
      </ CenRouteEn tries >
    </ DescribeCe nChildInst anceRouteE ntriesResp onse >

```

JSON format

```

{
  " PageNumber ": 1 ,
  " TotalCount ": 4 ,
  " PageSize ": 10 ,
  " RequestId ": " 17A57456 - EF48 - 419D - 9AE6 - 9B03D99960 18 ",
  " CenRouteEn tries ": {
    " CenRouteEn try ": [
      {
        " NextHopIns tanceId ": " vbr - bp13gtbhdp 0pfqg6s ****",
        " Status ": " Active ",
        " Operationa lMode ": false ,
        " CenRouteMa pRecords ": {
          " CenRouteMa pRecord ": [
            {
              " RouteMapId ": " cenmap - 4lcjxzo2zy qjd3 ****",
              " RegionId ": " cn - hangzhou "
            }
          ]
        }
      }
    ],
    " AsPaths ": {
      " AsPath ": []
    },
    " Communitie s ": {
      " Community ": []
    },
    " Type ": " CEN ",
    " NextHopTyp e ": " VBR ",
    " NextHopReg ionId ": " cn - hangzhou ",
    " RouteTable Id ": " vtb - bp1r9pvl4x en8s9ju ****",

```

```

    " DestinationCidrBlock ":" 10 . 0 . 0 . 0 / 24 ",
    " Conflicts ":{
      " Conflict ":[ ]
    }
  },
  {
    " Status ":" Active ",
    " OperationalMode ": false ,
    " CenRouteMapRecords ":{
      " CenRouteMapRecord ":[ ]
    },
    " AsPaths ":{
      " AsPath ":[ ]
    },
    " Communities ":{
      " Community ":[ ]
    },
    " Type ":" System ",
    " NextHopType ":" service ",
    " RouteTableId ":" vtb - bplr9pvl4x en8s9ju ****",
    " DestinationCidrBlock ":" 100 . 64 . 0 . 0 / 10 ",
    " Conflicts ":{
      " Conflict ":[ ]
    },
    " PublishStatus ":" NonPublished "
  },
  {
    " Status ":" Active ",
    " OperationalMode ": true ,
    " CenRouteMapRecords ":{
      " CenRouteMapRecord ":[ ]
    },
    " AsPaths ":{
      " AsPath ":[ ]
    },
    " Communities ":{
      " Community ":[ ]
    },
    " Type ":" System ",
    " NextHopType ":" local ",
    " RouteTableId ":" vtb - bplr9pvl4x en8s9ju ****",
    " DestinationCidrBlock ":" 172 . 16 . 0 . 0 / 24 ",
    " Conflicts ":{
      " Conflict ":[ ]
    },
    " PublishStatus ":" Published "
  },
  {
    " NextHopInstanceId ":" vbr - bp13gtbhd0pfqg6s ****",
    " Status ":" Active ",
    " OperationalMode ": false ,
    " CenRouteMapRecords ":{
      " CenRouteMapRecord ":[
        {
          " RouteMapId ":" cenrmap - 4lcjxzo2zy qjd3 ****",
          " RegionId ":" cn - hangzhou "
        }
      ]
    },
    " AsPaths ":{
      " AsPath ":[ ]
    },
    " Communities ":{
      " Community ":[ ]
    }
  }
}

```

```
    },
    "Type ":" CEN ",
    "NextHopType e ":" VBR ",
    "NextHopRegionId ":" cn - hangzhou ",
    "RouteTable Id ":" vtb - bp1r9pvl4x en8s9ju ****",
    "DestinationCidrBlock ":" 192 . 168 . 2 . 0 / 24 ",
    "Conflicts ":{
      "Conflict ":[ ]
    }
  ]
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

11 Health checks

11.1 EnableCenVbrHealthCheck

Enable the health check of VBR to timely detect faulty physical connections.

Request parameters

Name	Type	Require	Description
Action	String	Yes	The action to perform. Valid value: EnableCenVbrHealthCheck
CenId	String	Yes	The ID of the CEN instance.
VbrInstanceRegionId	String	Yes	The region of the VBR. You can obtain the region ID by calling the DescribeRegions API.
VbrInstanceId	String	Yes	The ID of the VBR.
HealthCheckSourceIp	String	Yes	The source IP address of the health check.
HealthCheckTargetIp	String	Yes	The destination IP address of the health check.
VbrInstanceOwnerId	Long	No	The UID of the VBR.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https://cn.aliyuncs.com/?Action=EnableCenVbrHealthCheck
&CenId=cen-kojok19x3j0q6kx5qf
&VbrInstanceRegionId=cn-shenzhen
```

```
& VbrInstanc eId = vbr - wz95o9aylj 181n5mzk8z a
& HealthChec kSourceIp = 192 . 168 . 1 . 2
& HealthChec kTargetIp = 10 . 0 . 0 . 2
& CommonPara meters
```

Return example

- XML format

```
<? xml version =" 1 . 0 " encoding =" UTF - 8 "? >
< EnableCenV brHealthCh eckRespons e >
  < RequestId > A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A </
  RequestId >
  < CenId > Cen - atlpf6evc5 kqchpma5 </ CenId >
  < VbrId > vbr - il7ldy0ux6 rb15lc2snr w </ VbrId >
  < RegionId > cn - hangzhou </ RegionId >
  < SourceIp > 10 . 10 . 10 . 10 </ SourceIp >
  < TargetIp > 10 . 10 . 10 . 11 </ TargetIp >
  < PacketNum > 3 </ PacketNum >
  < Status > Enable </ Status >
</ EnableCenV brHealthCh eckRespons e >
```

- JSON format

```
" RequestId ": " A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A ",
" CenId ": " Cen - atlpf6evc5 kqchpma5 ",
" VbrId ": " vbr - il7ldy0ux6 rb15lc2snr w ",
" RegionId ": " cn - hangzhou ",
" SourceIp ": " 10 . 10 . 10 . 10 ",
" TargetIp ": " 10 . 10 . 10 . 11 ",
" PacketNum ": " 3 ",
" Status ": " Enable "
```

11.2 DescribeCenVbrHealthCheck

Queries the health check status of the physical connections in a specified region.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required ?	Example value	Description
VbrInstanc eRegionId	String	Yes	cn-hangzhou	The ID of the region to which the VBR belongs. To query the region ID, call DescribeRegions .

Parameter	Type	Required ?	Example value	Description
Action	String	No	DescribeCenVbrHealthCheck	Optional. The name of this action. Value: DescribeCenVbrHealthCheckRequest
CenId	String	No	cen-kojok19x3j0q****	Optional. The ID of the CEN instance.
PageNumber	Integer	No	2	Optional. The page number. Default value: 1
PageSize	Integer	No	2	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10
VbrInstanceId	String	No	vbr-wz95o9aylj181****	Optional. The ID of the VBR.
VbrInstanceOwnerId	Long	No	123465253556777	Optional. The ID of the account to which the VBR belongs.

Response parameters

Parameter	Type	Example value	Description
PageNumber	Integer	2	The current page number.
PageSize	Integer	2	The number of entries per page.
RequestId	String	A278B8A6-A5B8-4FDE-9F70-95F0F6A1D68A	The ID of the request.
TotalCount	Integer	2	The total number of queried entries.
VbrHealthChecks			The details of VBR health checks.

Parameter	Type	Example value	Description
CenId	String	cen-kojok19x3j0q6****	The ID of the CEN instance.
Delay	Long	12	The delay.
HealthCheckSourceIp	String	192.168.1.xx	The source IP address of the health check.
HealthCheckTargetIp	String	192.168.1.xx	The destination IP address of the health check.
LinkStatus	String	Active	The health status of the physical connection.
PacketLoss	Long	5	The packet loss rate.
VbrInstanceId	String	vbr-il7ldy0ux6rb15l****	The ID of the VBR.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCenVbrHealthCheck
& VbrInstanceId = cn - hangzhou
&< CommonParameters >
```

Response examples

XML format

```
< DescribeCenVbrHealthCheckResponse >
  < HealthChecks >
    < HealthCheck >
      < CenId > Cen - atlpf6evc5_kqch ****</ CenId >
      < VbrInstanceId > vbr - il7ldy0ux6_rb15lc2s
****</ VbrInstanceId >
      < HealthCheckSourceIp > 10 . 10 . 10 . xx </
HealthCheckSourceIp >
      < HealthCheckTargetIp > 10 . 10 . 10 . xx </
HealthCheckTargetIp >
      < Delay > 3ms </ Delay >
      < Packetloss > 5 %</ Packetloss >
    </ HealthCheck >
  </ HealthChecks >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
```

```
< RequestId > A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A </
  RequestId >
</ DescribeCe nVbrHealth CheckResponse >
```

JSON format

```
{
  " DescribeCe nVbrHealth CheckResponse ":{
    " PageNumber ":" 1 ",
    " TotalCount ":" 1 ",
    " PageSize ":" 10 ",
    " RequestId ":" A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A ",
    " HealthChecks ":{
      " HealthCheck ":{
        " Delay ":" 3ms ",
        " VbrInstanceID ":" vbr - il7ldy0ux6 rb15lc2s ****",
        " Packetloss ":" 5 %",
        " CenId ":" Cen - atlpf6evc5 kqch ****",
        " HealthCheckSourceIp ":" 10 . 10 . 10 . xx ",
        " HealthCheckTargetIp ":" 10 . 10 . 10 . xx "
      }
    }
  }
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

11.3 DisableCenVbrHealthCheck

Disable the health check of a VBR.

Request Parameters

Name	Type	Require	Description
Action	String	Yes	The action to perform. Valid value: DisableCen VbrHealthC heck
CenId	String	Yes	The ID of the CEN instance.
VbrInstanc eRegionId	String	Yes	The region of the VBR. You can obtain the region ID by calling the DescribeRegions API.
VbrInstanc eId	String	Yes	The ID of the VBR.
VbrInstanc eOwnerId	Long	No	The UID of the VBR.

Return Parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples**Request example**

```
https://cn-hangzhou.aliyuncs.com/?Action=DisableCenVbrHealthCheck
&CenId=cen-kojok19x3j0q6kx5qf
&VbrInstanceId=cn-shenzhen
&VbrInstanceId=vbr-wz95o9aylj181n5mzk8za
&CommonParameters
```

Return example

• XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DisableCenVbrHealthCheckResponse>
  <RequestId>A278B8A6-A5B8-4FDE-9F70-95F0F6A1D68A</RequestId>
</DisableCenVbrHealthCheckResponse>
```

• JSON format

```
"RequestId": "A278B8A6-A5B8-4FDE-9F70-95F0F6A1D68A"
```

12 Flow logs

12.1 CreateFlowlog

Creates a flow log for a CEN instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
LogStoreName	String	Yes	FlowLogStore	The Logstore that stores the captured traffic data.
ProjectName	String	Yes	FlowLogProject	The Project that stores the monitored traffic data.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the flow log belongs. To query the region ID, call DescribeRegions .
Action	String	No	CreateFlowlog	The name of this action. Value: CreateFlowLog.

Parameter	Type	Required ?	Example value	Description
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests . It must be 1 to 64 ASCII characters in length.
Description	String	No	This is my Flowlog.	The description of the flow log. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with <code>http://</code> or <code>https://</code> .
FlowLogName	String	No	myFlowlog	The name of the flow log. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter, but cannot start with <code>http://</code> or <code>https://</code> .

Response parameters

Parameter	Type	Example value	Description
FlowLogId	String	flowlog-m5evbtbpt****	The ID of the flow log.
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B457	The ID of the request.

Parameter	Type	Example value	Description
Success	String	true	Indicates whether the operation is successful. Valid values: <ul style="list-style-type: none"> · true: The operation is successful. · false: The operation is unsuccessful.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = CreateFlow log
& CenId = cen - 7qthudw0ll 6jmc ****
& LogStoreName = FlowLogStore
& ProjectName = FlowLogProject
& RegionId = cn - hangzhou
&< CommonParameters >
```

Response example

XML format

```
< CreateFlow logResponse >
  < RequestId > 3D6F9FD4 - AE3E - 416D - 950F - FC3696E279 77 </
  RequestId >
  < FlowLogId > flowlog - m5evbtbptx ffgs ****</ FlowLogId >
  < Success > true </ Success >
</ CreateFlow logResponse >
```

JSON format

```
{
  " RequestId ":" 3D6F9FD4 - AE3E - 416D - 950F - FC3696E279 77 ",
  " FlowLogId ":" flowlog - kklh24tcz0 44ne ****",
  " Success ": true
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

12.2 ModifyFlowLogAttribute

Modifies the name and description of a flow log.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
FlowLogId	String	Yes	flowlog-m5evbtbpt****	The ID of the flow log.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the flow log belongs. To query the region ID, call DescribeRegions .
Action	String	No	ModifyFlowLogAttribute	The name of this action. Value: ModifyFlowLogAttribute.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests. It must be 1 to 64 ASCII characters in length.
Description	String	No	This is my Flowlog.	The description of the flow log. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with <code>http://</code> or <code>https://</code> .

Parameter	Type	Required ?	Example value	Description
FlowLogName	String	No	myFlowlog	The name of the flow log. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter, but cannot start with <code>http://</code> or <code>https://</code> .

Response parameters

Parameter	Type	Example value	Description
RequestId	String	9A411874-2EC8-4633-9D30-9012DCE89DD1	The ID of the request.
Success	String	true	Indicates whether the operation is successful. Valid values: <ul style="list-style-type: none"> · true: The operation is successful. · false: The operation is unsuccessful.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = ModifyFlow LogAttribute
& CenId = cen - 7qthudw0ll 6jmc ****
& FlowLogId = flowlog - m5evbtbpt ****
& RegionId = cn - hangzhou
&< CommonParameters >
```

Response example

XML format

```
< ModifyFlow LogAttributeResponse >
  < RequestId > 9A411874 - 2EC8 - 4633 - 9D30 - 9012DCE89D D1 </
  RequestId >
```



```
< Success > true </ Success >
</ ModifyFlow LogAttribu teResponse >
```

JSON format

```
{
  "RequestId ":" 9A411874 - 2EC8 - 4633 - 9D30 - 9012DCE89D D1 ",
  " Success ": true
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

12.3 DescribeFlowlogs

Queries the flow logs of a CEN instance.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	No	DescribeFlowlogs	The name of this action. Value: DescribeFlowlogs.
CenId	String	No	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests . It must be 1 to 64 ASCII characters in length.

Parameter	Type	Required ?	Example value	Description
Description	String	No	This is my Flowlog.	The description of the flow log. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with <code>http://</code> or <code>https://</code> .
FlowLogId	String	No	flowlog-m5evbtbpt****	The ID of the flow log.
FlowLogName	String	No	myFlowlog	The name of the flow log.
LogStoreName	String	No	LogStore	The Logstore that stores the captured traffic data.
PageNumber	Integer	No	1	The current page number.
PageSize	Integer	No	10	The number of entries per page.
ProjectName	String	No	Project	The Project that stores the captured traffic data.
RegionId	String	No	cn-hangzhou	The ID of the region to which the flow log belongs. To query the region ID, call DescribeRegions .
Status	String	No	Active	The status of the flow log. Valid values: <ul style="list-style-type: none"> · Active: The flow log is active. · InActive: The flow log is inactive.

Response parameters

Parameter	Type	Example value	Description
FlowLogs			The details of the flow log.
CenId	String	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
CreationTime	String	2018-07-24T13:00:52Z	The time when the flow log is created.
Description	String	abc	The description of the flow log.
FlowLogId	String	flowlog-m5evbtbpt****	The ID of the flow log.
FlowLogName	String	myFlowlog	The name of the flow log.
LogStoreName	String	FlowLogStore	The Logstore that stores the captured traffic data.
ProjectName	String	FlowLogProject	The Project that stores the captured traffic data.
RegionId	String	cn-hangzhou	The ID of the region.
Status	String	Active	The status of the flow log. Valid values: <ul style="list-style-type: none"> Active: The flow log is active. InActive: The flow log is inactive.
PageNumber	String	1	The current page number.
PageSize	String	10	The number of entries per page.
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Parameter	Type	Example value	Description
Success	String	true	Indicates whether the operation is successful. Valid values: <ul style="list-style-type: none"> · true: The operation is successful. · false: The operation is unsuccessful.
Totalcount	String	3	The total number of queried flow logs.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeFl owlogs
&< CommonPara meters >
```

Response example

XML format

```
< DescribeFl owlogsResp onse >
  < RequestId > 04F0F334 - 1335 - 436C - A1D7 - 6C044FExxx xx </
  RequestId >
</ DescribeFl owlogsResp onse >
```

JSON format

```
{
  " RequestId ":" 04F0F334 - 1335 - 436C - A1D7 - 6C044FExxx xx "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

12.4 ActiveFlowLog

Starts a flow log. After a flow log is started, the traffic information of the specified cloud resource starts to be collected.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required ?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
FlowLogId	String	Yes	flowlog-m5evbtbpt****	The ID of the flow log.
RegionId	String	Yes	cn-hangzhou	The region ID of the flow log. To query the region ID, call DescribeRegions .
Action	String	No	ActiveFlowLog	Optional. The name of this action. Value: ActiveFlowLog

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = ActiveFlow Log
& CenId = cen - 7qthudw0ll 6jmc ****
& FlowLogId = flowlog - m5evbtbpt ****
& RegionId = cn - hangzhou
&< CommonPara meters >
```

Response examples

XML format

```
< ActiveFlow LogRespons e >
  < RequestId > F7DDDC17 - FA06 - 4AC2 - 8F35 - 59D2470FCF C1 </
  RequestId >
```

```
</ ActiveFlow LogResponse >
```

JSON format

```
{
  "RequestId ":" F7DDDC17 - FA06 - 4AC2 - 8F35 - 59D2470FCF C1 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

12.5 DeactiveFlowLog

Stops a flow log. After a flow log is stopped, the traffic information of the specified cloud resource is no longer collected.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
FlowLogId	String	Yes	flowlog-m5evbtbpt****	The ID of the flow log.
RegionId	String	Yes	cn-hangzhou	The region ID of the flow log. To query the region ID, call DescribeRegions .
Action	String	No	DeactiveFlowLog	Optional. The name of this action. Value: DeactiveFlowLog

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DeactiveFlowLog
& CenId = cen - 7qthudw0ll 6jmc ****
& FlowLogId = flowlog - m5evbtbpt ****
& RegionId = cn - hangzhou
&< CommonParameters >
```

Response examples

XML format

```
< DeactiveFlowLogResponse >
  < RequestId > F7DDDC17 - FA06 - 4AC2 - 8F35 - 59D2470FCF C1 </
  RequestId >
</ DeactiveFlowLogResponse >
```

JSON format

```
{
  " RequestId ":" F7DDDC17 - FA06 - 4AC2 - 8F35 - 59D2470FCF C1 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

12.6 DeleteFlowlog

Deletes a flow log.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
FlowLogId	String	Yes	flowlog-m5evbtbpt****	The ID of the flow log.

Parameter	Type	Required ?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the flow log. To query the region ID, call DescribeRegions .
Action	String	No	DeleteFlowlog	Optional. The name of this action. Value: DeleteFlowlog

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DeleteFlow log
& CenId = cen - 7qthudw0ll 6jmc ****
& FlowLogId = flowlog - m5evbtbpt ****
& RegionId = cn - hangzhou
&< CommonPara meters >
```

Response examples

XML format

```
< DeleteFlow LogRespons e >
  < RequestId > F7DDDC17 - FA06 - 4AC2 - 8F35 - 59D2470FCF C1
</ RequestId >
</ DeleteFlow LogRespons e >
```

JSON format

```
{
  " RequestId ":" F7DDDC17 - FA06 - 4AC2 - 8F35 - 59D2470FCF C1 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

13 Routing policies

13.1 CreateCenRouteMap


Creates a route map for a CEN instance.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
CenRegionId	String	Yes	cn-hangzhou	The region to which the CEN instance belongs. To query the region ID, call DescribeRegions .

Parameter	Type	Required ?	Example value	Description
Priority	Integer	Yes	3	<p>The priority of the route map. Value range: 1 to 100. A smaller value indicates a higher priority.</p> <div style="background-color: #f0f0f0; padding: 5px;">  Note: The priority of route maps in the same region and the same direction must be unique. When route maps are executed, the system first checks whether the route map with the highest priority matches the conditional statements. Therefore, we recommend that you specify an appropriate priority for each route map. </div>

Parameter	Type	Required ?	Example value	Description
TransmitDirection	String	Yes	RegionIn	<p>The direction of the route map.</p> <p>Valid values:</p> <ul style="list-style-type: none"> · RegionIn: the direction in which a route is published to the regional gateway of the CEN instance. <p>For example, a route is published to the local regional gateway from a local network instance or from another region.</p> · RegionOut: the direction in which a route is published from the regional gateway of the CEN instance. <p>For example, a route is published from a local regional gateway to another network instance in this region or to another regional gateway.</p>
MapResult	String	Yes	Permit	<p>The match mode used if a route meets all match conditions.</p> <p>Valid values:</p> <ul style="list-style-type: none"> · Permit: permits a route if it meets all match conditions. · Deny: denies a route if it meets all match conditions.
Action	String	No	CreateCenRouteMap	<p>The name of this action. Value: CreateCenRouteMap.</p>

Parameter	Type	Required ?	Example value	Description
NextPriority	Integer	No	20	<p>The priority of the associated next route map. Value range: 1 to 100.</p> <ul style="list-style-type: none"> • If this parameter is not set , the current route map is not associated with the next route map. • If this parameter is set to 1 , the current route map is associated with the next route map. • If this parameter is set to a value that is not 1, the priority of the associated route map must be greater than that of the current route map. <p>Only route maps whose MapResult is set to Permit will be checked whether they match the associated next route map after meeting all current match conditions.</p>
Description	String	No	abc	The description of the route map.
SourceRegionIds . N	RepeatList	No	cn-beijing	A match statement that indicates the ID of the source region. Up to 32 region IDs can be entered.


Parameter	Type	Required?	Example value	Description
SourceInstanceIds . N	RepeatList	No	vpc-a	A match statement that indicates the ID of the source instance. Up to 32 instance IDs can be entered.
SourceInstanceIdsReverseMatch	Boolean	No	false	The match method of the SourceInstanceIds match condition. Valid values: <ul style="list-style-type: none"> · false (default): If the source instance's ID contained in a route is included in <code>SourceInstanceIds</code>, the route is permitted. · true: If the source instance's ID contained in a route is not included in <code>SourceInstanceIds</code>, the route is permitted.
DestinationInstanceIds . N	RepeatList	No	vpc-a	A match statement that indicates the ID of the target instance. Up to 32 instance IDs can be entered. This parameter is valid only when the TransmitDirection parameter is set to RegionOut and the ID of the target instance is the ID of an instance in this region.

Parameter	Type	Required?	Example value	Description
DestinationInstanceIdsReverseMatch	Boolean	No	false	<p>The match method of the DestinationInstanceIds match condition. Valid values:</p> <ul style="list-style-type: none"> · false (default): If the target instance's ID contained in a route is included in DestinationInstanceIds, the route is permitted. · true: If the target instance's ID contained in a route is not included in DestinationInstanceIds, the route is permitted.
SourceRouteTableIds . N	RepeatList	No	vtb-a	A match statement that indicates the ID of the source route table. Up to 32 route table IDs can be entered.
DestinationRouteTableIds . N	RepeatList	No	vtb-a	<p>A match statement that indicates the ID of the target route table. Up to 32 route table IDs can be entered.</p> <p>This parameter is valid only when the TransmitDirection parameter is set to RegionOut and the target route table is a route table in this region.</p>
SourceChildInstanceTypes . N	RepeatList	No	VPC	A match statement that indicates the type of the source instance. Valid values: VPC VBR CCN.


Parameter	Type	Required ?	Example value	Description
DestinationChildInstanceTypes . N	RepeatList	No	VPC	<p>A match statement that indicates the type of the target instance. Valid values: VPC VBR CCN.</p> <p>This parameter is valid only when the TransmitDirection parameter is set to RegionOut and the type of the target instance is the type of an instance in this region.</p>
DestinationCidrBlocks . N	RepeatList	No	1.1.1.0/10	<p>A match statement that indicates the prefix list. The prefix is in the CIDR format. Up to 32 CIDR blocks can be entered.</p>

Parameter	Type	Required ?	Example value	Description
CidrMatchMode	String	No	Include	<p>A match statement. It indicates the mode in which the prefix attribute is matched. Valid values:</p> <ul style="list-style-type: none"> · Include: indicates fuzzy match. If the prefix of a route is contained in the prefix in the match condition, the route matches the condition. <p>For example, if the prefix in the match condition is set to 1.1.0.0/16 and the match method is set to Fuzzy Match , the route with the prefix of 1.1.1.0/24 matches the condition.</p> <ul style="list-style-type: none"> · Complete: indicates exact match. A route matches the condition only when the prefix of the route is the same as the prefix in the match condition. <p>For example, if the prefix in the match condition is set to 1.1.0.0/16 and the match method is set to Exact Match , only the route with the prefix of 1.1.1.0/16 matches the condition.</p>

Parameter	Type	Required ?	Example value	Description
RouteTypes · N	RepeatList	No	System	<p>A match statement that indicates the list of route types</p> <p>· Valid values:</p> <ul style="list-style-type: none"> · System: indicates routes generated by the system. · Custom: indicates routes added by users. · BGP: indicates routes advertised to BGP. <p>Multiple route types can be entered.</p>
MatchAsns · N	RepeatList	No	65501	<p>A match statement that indicates the As path list.</p> <p>The AS path is a well-known mandatory attribute, which describes the numbers of the ASs that a BGP route passes through during transmission.</p> <p>Only AS SEQUENCE is supported. AS SET, AS CONFED SEQUENCE, or AS CONFED SET are not supported. Specifically , only a list of AS numbers are supported. Sets or sub-lists are not supported.</p>

Parameter	Type	Required ?	Example value	Description
AsPathMatchMode	String	No	Include	<p>A match statement. It indicates the mode in which the as-path attribute is matched. Valid values:</p> <ul style="list-style-type: none"> · Include: indicates fuzzy match. A route matches the condition if the AS path in the route overlaps the AS path in the match condition. · Complete: indicates exact match. A route matches the condition only when the AS path of the route is the same as the AS path in the match condition.
MatchCommunitySet . N	RepeatList	No	65501:1	<p>A match statement that indicates the community set. The format of each community is nn:nn, which ranges from 1 to 65535. Up to 32 communities can be entered. Communities must comply with RFC 1997. Large communities (RFC 8092) are not supported.</p> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> <p> Note: Community configuration errors may cause a problem that the route cannot be published to the on-premises data center.</p> </div>

Parameter	Type	Required ?	Example value	Description
CommunityMatchMode	String	No	Include	<p>A match statement. It indicates the mode in which the community attribute is matched. Valid values:</p> <ul style="list-style-type: none"> • Include: indicates fuzzy match. A route matches the condition if the community of the route overlaps the community in the match condition. • Complete: indicates exact match. A route matches the condition only when the community of the route is the same as the community in the match condition.
CommunityOperateMode	String	No	Additive	<p>An action statement. It indicates the mode in which the community attribute is operated. Valid values:</p> <ul style="list-style-type: none"> • Additive: sets a value for the community attribute. • Replace: modifies the value of the community attribute.

Parameter	Type	Required ?	Example value	Description
OperateCommunitySet . N	RepeatList	No	65501:1	<p>An action statement that operates the community attribute. The format of each community is nn:nn, which ranges from 1 to 65535. Up to 32 communities can be entered. Communities must comply with RFC 1997. Large communities (RFC 8092) are not supported.</p> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;">  Note: Community configuration errors may cause a problem that the route cannot be published to the on-premises data center. </div>
Preference	Integer	No	22	An action statement that modifies the preference of the route. Value range: 1 to 100. The default preference of a route is 50. A lower value indicates a higher preference.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B457	The ID of the request.
RouteMapId	String	cenrmap-w4yf7toozfol3q****	The ID of the route map.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = CreateCenR  outeMap
& CenId = cen - 7qthudw0ll 6jmc ****
& CenRegionI d = cn - hangzhou
& Priority = 3
& TransmitDi rection = RegionIn
& MapResult = Permit
&< CommonPara meters >
```

Response example

XML format

```
< CreateCenR  outeMapRes ponse >
  < RequestId > 62172DD5 - 6BAC - 45DF - 8D44 - 6DFG456BAC </
  RequestId >
  < RouteMapId > rmap - df12d22sd2 3 ****</ RouteMapId >
</ CreateCenR  outeMapRes ponse >
```

JSON format

```
{
  " RouteMapId ":" cenrmap - w4yf7toozf ol3q ****",
  " RequestId ":" 62172DD5 - 6BAC - 45DF - 8D44 - 56SDF467BA C "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

13.2 DescribeCenRouteMaps

Queries the route maps of a CEN instance.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required ?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.

Parameter	Type	Required?	Example value	Description
Action	String	No	DescribeCenRouteMaps	The name of this action. Value: DescribeCenRouteMaps.
CenRegionId	String	No	cn-beijing	The ID of the region to which the CEN instance belongs. To query the region ID, call DescribeRegions .
RouteMapId	String	No	cenmap- abcdedfghj ****	The ID of the route map.
TransmitDirection	String	No	RegionIn	<p>The direction of the route map. Valid values:</p> <ul style="list-style-type: none"> RegionIn: the direction in which a route is published to the regional gateway of the CEN instance. <p>For example, a route is published to the local regional gateway from a local network instance or from another region.</p> <ul style="list-style-type: none"> RegionOut: the direction in which a route is published from the regional gateway of the CEN instance. <p>For example, a route is published from a local regional gateway to another network instance in this region or to another regional gateway.</p>

Parameter	Type	Required ?	Example value	Description
PageNumber	Integer	No	1	The page number of the list. Default value: 1.
PageSize	Integer	No	10	The number of rows per page for a paged query. Maximum value: 50. Default value: 10.

Response parameters

Parameter	Type	Example value	Description
RouteMaps			The route map details.
AsPathMatchMode	String	Include	A match statement. It indicates the mode in which the as-path attribute is matched. Valid values: <ul style="list-style-type: none"> • Include: indicates fuzzy match. A route matches the condition if the AS path in the route overlaps the AS path in the match condition. • Complete: indicates exact match. A route matches the condition only when the AS path of the route is the same as the AS path in the match condition.
CenId	String	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
CenRegionId	String	cn-hangzhou	The region to which the CEN instance belongs.

Parameter	Type	Example value	Description
CidrMatchMode	String	Include	<p>A match statement. It indicates the mode in which the prefix attribute is matched. Valid values:</p> <ul style="list-style-type: none"> • Include: indicates fuzzy match. If the prefix of a route is contained in the prefix in the match condition, the route matches the condition. For example, if the prefix in the match condition is set to 1.1.0.0/16 and the match method is set to Fuzzy Match, the route with the prefix of 1.1.1.0/24 matches the condition. • Complete: indicates exact match. A route matches the condition only when the prefix of the route is the same as the prefix in the match condition. For example, if the prefix in the match condition is set to 1.1.0.0/16 and the match method is set to Exact Match, only the route with the prefix of 1.1.1.0/16 matches the condition.

Parameter	Type	Example value	Description
CommunityMatchMode	String	Include	<p>A match statement. It indicates the mode in which the community attribute is matched. Valid values:</p> <ul style="list-style-type: none"> • Include: indicates fuzzy match. A route matches the condition if the community of the route overlaps the community in the match condition. • Complete: indicates exact match. A route matches the condition only when the community of the route is the same as the community in the match condition.
CommunityOperateMode	String	Additive	<p>An action statement. It indicates the mode in which the community attribute is operated. Valid values:</p> <ul style="list-style-type: none"> • Additive: sets a value for the community attribute. • Replace: modifies the value of the community attribute.
Description	String	abc	The description of the route map.
DestinationChildInstanceTypes		VPC	<p>A match statement that indicates the type of the target instance. Valid values: VPC VBR CCN.</p> <p>This parameter is valid only when the TransmitDirection parameter is set to RegionOut and the type of the target instance is the type of an instance in this region.</p>
DestinationCidrBlocks		1.1.1.0/10	A match statement that indicates the prefix list.

Parameter	Type	Example value	Description
<code>DestinationInstanceIds</code>		<code>vpc-a</code>	<p>A match statement that indicates the ID of the target instance.</p> <p>This parameter is valid only when the <code>TransmitDirection</code> parameter is set to <code>RegionOut</code> and the ID of the target instance is the ID of an instance in this region.</p>
<code>DestinationInstanceIdsReverseMatch</code>	Boolean	<code>false</code>	<p>The match method of the <code>DestinationInstanceIds</code> match condition.</p> <p>Valid values:</p> <ul style="list-style-type: none"> <code>false</code> (default): If the target instance's ID contained in a route is included in <code>DestinationInstanceIds</code>, the route is permitted. <code>true</code>: If the target instance's ID contained in a route is not included in <code>DestinationInstanceIds</code>, the route is permitted.
<code>DestinationRouteTableIds</code>		<code>vtb-a</code>	<p>A match statement that indicates the ID of the target route table.</p> <p>This parameter is valid only when the <code>TransmitDirection</code> parameter is set to <code>RegionOut</code> and the target route table is a route table in this region.</p>

Parameter	Type	Example value	Description
MapResult	String	Permit	<p>The match mode used if a route meets all match conditions. Valid values:</p> <ul style="list-style-type: none"> · Permit: permits a route if it meets all match conditions. · Deny: denies a route if it meets all match conditions.
MatchAsns		65501	A match statement that indicates the As path list.
MatchCommunitySet		65501:1	A match statement that indicates the community set.
NextPriority	Integer	33	<p>The priority of the associated next route map. Value range: 1 to 100.</p> <ul style="list-style-type: none"> · If this parameter is not set, the current route map is not associated with the next route map. · If this parameter is set to 1, the current route map is associated with the next route map. · If this parameter is set to a value that is not 1, the priority of the associated route map must be greater than that of the current route map. <p>Only route maps whose MapResult is set to Permit will be checked whether they match the associated next route map after meeting all current match conditions.</p>
OperateCommunitySet		65501:1	An action statement that modifies the value of the community attribute.

Parameter	Type	Example value	Description
Preference	Integer	20	An action statement that modifies the preference of the route.
Priority	Integer	22	The priority of the route map. Value range: 1 to 100. A lower value indicates a higher priority.
RouteMapId	String	cenrmap- abcdedfghij****	The ID of the route map.
RouteTypes		System	A match statement that indicates the list of route types. Valid values: <ul style="list-style-type: none"> · System: indicates routes generated by the system. · Custom: indicates routes added by users. · BGP: indicates routes advertised to BGP.
SourceChildInstanceTypes		VPC	A match statement that indicates the type of the source instance. Valid values: VPC VBR CCN.
SourceInstanceIds		vpc-a	A match statement that indicates the ID of the source instance.

Parameter	Type	Example value	Description
SourceInstanceIdsReverseMatch	Boolean	false	<p>The match method of the SourceInstanceIds match condition . Valid values:</p> <ul style="list-style-type: none"> · false (default): If the source instance's ID contained in a route is included in SourceInstanceIds , the route is permitted. · true: If the source instance's ID contained in a route is not included in SourceInstanceIds , the route is permitted.
SourceRegionIds		cn-beijing	A match statement that indicates the ID of the source region.
SourceRouteTableIds		vtb-a	A match statement that indicates the ID of the source route table.
Status	String	Active	<p>The status of the route map. Valid values:</p> <ul style="list-style-type: none"> · Active: The route map is active. · Creating: The route map is being created.

Parameter	Type	Example value	Description
TransmitDirection	String	RegionIn	<p>The direction of the route map.</p> <p>Valid values:</p> <ul style="list-style-type: none"> RegionIn: the direction in which a route is published to the regional gateway of the CEN. <p>For example, a route is published to the local regional gateway from a local network instance or from another region.</p> RegionOut: the direction in which a route is published from the regional gateway of the CEN. <p>For example, a route is published from a local regional gateway to another network instance in this region or to another regional gateway.</p>
PageSize	Integer	10	The number of entries per page.
PageNumber	Integer	1	The current page number.
TotalCount	Integer	10	The total number of entries.
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B45	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCenRouteMaps
& CenId = cen - 7qthudw0ll 6jmc ****
&< CommonParameters >
```

Response example

XML format

```
< DescribeCenRouteMaps Response >
  < RouteMaps >
    < RouteMap >
      < Status > Active </ Status >
      < CenRegionId > cn - beijing </ CenRegionId >
      < RouteMapId > cenrmap - jumdfzmj5s ggg1 ****</ RouteMapId >
      < MapResult > Permit </ MapResult >
      < TransmitDirection > RegionIn </ TransmitDirection >
      < CenId > cen - nh98vzx8gf hlwn ****</ CenId >
      < Priority > 20 </ Priority >
    </ RouteMap >
  </ RouteMaps >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
</ DescribeCenRouteMaps Response >
```

JSON format

```
{
  " PageNumber ": 1 ,
  " RouteMaps ":{
    " RouteMap ":[
      {
        " Status ":" Active ",
        " RouteMapId ":" cenrmap - jumdfzmj5s ggg1 ****",
        " CenRegionId ":" cn - beijing ",
        " MapResult ":" Permit ",
        " TransmitDirection ":" RegionIn ",
        " CenId ":" cen - nh98vzx8gf hlwn ****",
        " Priority ": 20
      }
    ]
  },
  " TotalCount ": 1 ,
  " PageSize ": 10
}
```

Errors

For a list of error codes, visit the [API Error Center](#).


13.3 ModifyCenRouteMap

Modifies a route map of a CEN instance.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
CenRegionId	String	Yes	cn-hangzhou	The region of the CEN instance. To query the region ID, call DescribeRegions .
MapResult	String	Yes	Permit	The match mode used if a route meets all match conditions. Valid values: <ul style="list-style-type: none"> Permit: permits a route if it meets all match conditions. Deny: denies a route if it meets all match conditions.
Priority	Integer	Yes	10	The priority of the route map. Value range: 1 to 100. A smaller value indicates a higher priority. <div style="background-color: #f0f0f0; padding: 5px;">  Note: The priority of route maps in the same region and the same direction must be unique. When route maps are executed, the system first checks whether the route map with the highest priority matches the conditional statements. Therefore, we recommend that you specify an appropriate priority for each route map. </div>
RouteMapId	String	Yes	cenrmap-abcdedfghj****	The ID of the route map.

Parameter	Type	Required?	Example value	Description
Action	String	No	ModifyCenRouteMap	The name of this action. Value: ModifyCenRouteMap.
NextPriority	Integer	No	20	<p>The priority of the associated next route map. Value range: 1 to 100.</p> <ul style="list-style-type: none"> · If this parameter is not set , the current route map is not associated with the next route map. · If this parameter is set to 1 , the current route map is associated with the next route map. · If this parameter is set to a value that is not 1, the priority of the associated route map must be greater than that of the current route map. <p>Only route maps whose MapResult is set to Permit, will be checked whether they match the associated next route map after meeting all current match conditions.</p>
Description	String	No	test	The description of the route map.
SourceRegionIds . N	RepeatList	No	cn-beijing	A match statement that indicates the ID of the source region. Up to 32 region IDs can be entered.


Parameter	Type	Required?	Example value	Description
SourceInstanceIds . N	RepeatList	No	vpc-a	A match statement that indicates the ID of the source instance. Up to 32 instance IDs can be entered.
SourceInstanceIdsReverseMatch	Boolean	No	false	The match method of the SourceInstanceIds match condition. Valid values: <ul style="list-style-type: none"> · false (default): If the source instance's ID contained in a route is included in <code>SourceInstanceIds</code>, the route is permitted. · true: If the source instance's ID contained in a route is not included in <code>SourceInstanceIds</code>, the route is permitted.
DestinationInstanceIds . N	RepeatList	No	vpc-a	A match statement that indicates the ID of the target instance. Up to 32 instance IDs can be entered. This parameter is valid only when the TransmitDirection parameter is set to RegionOut and the ID of the target instance is the ID of an instance in this region.

Parameter	Type	Required ?	Example value	Description
DestinationInstanceIdsReverseMatch	Boolean	No	false	<p>The match method of the DestinationInstanceIds match condition. Valid values:</p> <ul style="list-style-type: none"> · false (default): If the target instance's ID contained in a route is included in DestinationInstanceIds, the route is permitted. · true: If the target instance's ID contained in a route is not included in DestinationInstanceIds, the route is permitted.
SourceRouteTableIds . N	RepeatList	No	vtb-a	A match statement that indicates the ID of the source route table. Up to 32 route table IDs can be entered.
DestinationRouteTableIds . N	RepeatList	No	vtb-a	<p>A match statement that indicates the ID of the target route table. Up to 32 route table IDs can be entered.</p> <p>This parameter is valid only when the TransmitDirection parameter is set to RegionOut and the target route table is a route table in this region.</p>
SourceChildInstanceTypes . N	RepeatList	No	VPC	A match statement that indicates the type of the source instance. Valid values: VPC VBR CCN.


Parameter	Type	Required ?	Example value	Description
DestinationChildInstanceTypes . N	RepeatList	No	VPC	<p>A match statement that indicates the type of the target instance. Valid values: VPC VBR CCN.</p> <p>This parameter is valid only when the TransmitDirection parameter is set to RegionOut and the type of the target instance is the type of an instance in this region.</p>
DestinationCidrBlocks . N	RepeatList	No	1.1.1.0/10	<p>A match statement that indicates the prefix list. The prefix is in the CIDR format. Up to 32 CIDR blocks can be entered.</p>

Parameter	Type	Required ?	Example value	Description
CidrMatchMode	String	No	Include	<p>A match statement. It indicates the mode in which the prefix attribute is matched. Valid values:</p> <ul style="list-style-type: none"> • Include: indicates fuzzy match. If the prefix of a route is contained in the prefix in the match condition, the route matches the condition. <p>For example, if the prefix in the match condition is set to 1.1.0.0/16 and the match method is set to Fuzzy Match, the route with the prefix of 1.1.1.0/24 matches the condition.</p> <ul style="list-style-type: none"> • Complete: indicates exact match. A route matches the condition only when the prefix of the route is the same as the prefix in the match condition. <p>For example, if the prefix in the match condition is set to 1.1.0.0/16 and the match method is set to Exact Match, only the route with the prefix of 1.1.1.0/16 matches the condition.</p>

Parameter	Type	Required ?	Example value	Description
RouteTypes . N	RepeatList	No	System	<p>A match statement that indicates the list of route types</p> <p>. Valid values:</p> <ul style="list-style-type: none"> • System: indicates routes generated by the system. • Custom: indicates routes added by users. • BGP: indicates routes advertised to BGP. <p>Multiple route types can be entered.</p>
MatchAsns . N	RepeatList	No	65501	<p>A match statement that indicates the As path list.</p> <p>The AS path is a well-known mandatory attribute, which describes the numbers of the ASs that a BGP route passes through during transmission.</p> <p>Only AS SEQUENCE is supported. AS SET, AS CONFED SEQUENCE, or AS CONFED SET are not supported. Specifically , only a list of AS numbers are supported. Sets or sub-lists are not supported.</p>

Parameter	Type	Required ?	Example value	Description
AsPathMatchMode	String	No	Include	<p>A match statement. It indicates the mode in which the as-path attribute is matched. Valid values:</p> <ul style="list-style-type: none"> · Include: indicates fuzzy match. A route matches the condition if the AS path in the route overlaps the AS path in the match condition. · Complete: indicates exact match. A route matches the condition only when the AS path of the route is the same as the AS path in the match condition.
MatchCommunitySet . N	RepeatList	No	65501:1	<p>A match statement that indicates the community set. The format of each community is nn:nn, which ranges from 1 to 65535. Up to 32 communities can be entered. Communities must comply with RFC 1997. Large communities (RFC 8092) are not supported.</p> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> <p> Note: Community configuration errors may cause a problem that the route cannot be published to the on-premises data center.</p> </div>

Parameter	Type	Required ?	Example value	Description
CommunityMatchMode	String	No	Include	<p>A match statement. It indicates the mode in which the community attribute is matched. Valid values:</p> <ul style="list-style-type: none"> • Include: indicates fuzzy match. A route matches the condition if the community of the route overlaps the community in the match condition. • Complete: indicates exact match. A route matches the condition only when the community of the route is the same as the community in the match condition.
CommunityOperateMode	String	No	Additive	<p>An action statement. It indicates the mode in which the community attribute is operated. Valid values:</p> <ul style="list-style-type: none"> • Additive: sets a value for the community attribute. • Replace: modifies the value of the community attribute.

Parameter	Type	Required ?	Example value	Description
OperateCommunitySet . N	RepeatList	No	65501:1	<p>An action statement that operates the community attribute. The format of each community is nn:nn, which ranges from 1 to 65535. Up to 32 communities can be entered. Communities must comply with RFC 1997. Large communities (RFC 8092) are not supported.</p> <div style="border: 1px solid gray; background-color: #f0f0f0; padding: 5px; margin-top: 10px;">  Note: Community configuration errors may cause a problem that the route cannot be published to the on-premises data center. </div>
Preference	Integer	No	22	<p>An action statement that modifies the preference of the route. Value range: 1 to 100. The default preference of a route is 50. A lower value indicates a higher preference.</p>

Response parameters

Parameter	Type	Example value	Description
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B457	The ID of the request.

Examples

Request example

```
http ( s ) : // [ Endpoint ] / ? Action = ModifyCenR outeMap
```

```
& CenId = cen - 7qthudw0ll 6jmc ****
& CenRegionI d = cn - hangzhou
& MapResult = Permit
& Priority = 10
& RouteMapId = cenrmap - abcdefghi j ****
&< CommonPara meters >
```

Response example

XML format

```
< ModifyCenR outeMapRes ponse >
  < RequestId > 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx </
  RequestId >
</ ModifyCenR outeMapRes ponse >
```

JSON format

```
{
  " RequestId ":" 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

13.4 DeleteCenRouteMap

Deletes a routing policy.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required ?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc ****	The ID of the CEN instance for which the routing policy is created.
CenRegionI d	String	Yes	cn-hangzhou	The region of the CEN instance. To query the region ID, call DescribeRegions .

Parameter	Type	Required ?	Example value	Description
RouteMapId	String	Yes	cenmap- abcdedfghij ****	The ID of the routing policy.
Action	String	No	DeleteCenR outeMap	Optional. The name of this action. Value: DeleteCenR outeMap

Response parameters

Parameter	Type	Example value	Description
RequestId	String	5903EE99-D542- -4E14-BC65- AAC1CB2D3D03	The ID of the request.

Examples

Request example

```
https://cn-northeast-1.aliyuncs.com/?Action=DeleteCenRouteMap
&CenId=cen-7qthudw0ll6jm****
&CenRegionId=cn-hangzhou
&RouteMapId=cenmap-abcdedfghij****
&<CommonParameters>
```

Response examples

XML format

```
<DeleteCenRouteMapResponse>
  <RequestId>5903EE99-D542-4E14-BC65-AAC1CB2D3D03</RequestId>
</DeleteCenRouteMapResponse>
```

JSON format

```
{
  "RequestId": "5903EE99-D542-4E14-BC65-AAC1CB2D3D03"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14 Cloud services

14.1 DeleteRouteServiceInCen

Deletes the Cloud Enterprise Network (CEN) settings of accessing a cloud service.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
AccessRegionId	String	Yes	cn-hangzhou	The region of the network instances that access the cloud service.
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
Host	String	Yes	100.64.0.0/8	The IP address or domain name of the cloud service.
HostRegionId	String	Yes	cn-shanghai	The region of the cloud service.
Action	String	No	DeleteRouteServiceInCen	Optional. The name of this action. Value: DeleteRouteServiceInCen
HostVpcId	String	No	vpc-bp1t36rn9l53iwbsf****	Optional. The VPC associated with the cloud service.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	2315DEB7-5E92-423A-91F7-4C1EC9AD97C3	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DeleteRouteServiceInCen
& AccessRegionId = cn - hangzhou
& CenId = cen - 7qthudw0ll 6jmc ****
& Host = 100 . 64 . 0 . 0 / 8
& HostRegionId = cn - shanghai
&< CommonParameters >
```

Response example

XML format

```
< DeleteRouteServiceInCenResponse >
  < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97 C3 </
  RequestId >
</ DeleteRouteServiceInCenResponse >
```

JSON format

```
{
  "RequestId ":" 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97 C3 "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

14.2 DescribeRouteServicesInCen

Queries the cloud service access settings in a Cloud Enterprise Network (CEN) instance.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required ?	Example value	Description
AccessRegionId	String	No	cn-beijing	Optional. The region of the network instances that access the cloud services.
Action	String	No	DescribeRouteServicesInCen	Optional. The name of this action. Value: DescribeRouteServicesInCen
CenId	String	No	cen-7qthudw0ll6jmc****	Optional. The ID of the CEN instance.
Host	String	No	100.64.0.0/24	Optional. The domain name or IP address of the cloud service.
HostRegionId	String	No	cn-hangzhou	Optional. The region of the cloud service.
HostVpcId	String	No	vpc-bp1t36rn9l53iwbsf****	Optional. The VPC associated with the cloud service.
PageNumber	Integer	No	1	Optional. The page number. Default value: 1
PageSize	Integer	No	10	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10

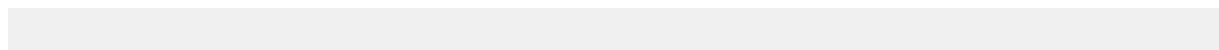
Response parameters

Parameter	Type	Example value	Description
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.

Parameter	Type	Example value	Description
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The request ID.
RouteServiceEntries			The details of the cloud service access settings.
AccessRegionId	String	cn-beijing	The region of the network instances that access the cloud service.
CenId	String	cen-xxx	The ID of the CEN instance.
Cidrs		0.0.0.0 /0	The IP address of the cloud service. If you set an IP address for the Host parameter, the value of the Cidrs parameter is an IP address. If you set a domain name for the Host parameter, the value of Cidrs is the IP address to which the domain name is resolved.
Host	String	0.0.0.0/0	The domain name or IP address of the cloud service.
HostRegionId	String	cn-hangzhou	The region of the cloud service.
Status	String	Active	The status of the cloud service.
UpdateInterval	String	5	The update interval. Default value: 5. The value cannot be modified.
TotalCount	Integer	10	The total number of cloud service entries.

Examples

Request example



```
http ( s )://[ Endpoint ]/? Action = DescribeRouteService sInCen
&< CommonParameters >
```

Response example

XML format

```
< DescribeRouteService sInCenResponse >
  < TotalCount > 3 </ TotalCount >
  < PageNumber > 1 </ PageNumber >
  < PageSize > 10 </ PageSize >
  < RouteServiceEntries >
    < RouteServiceEntry >
      < Status > Active </ Status >
      < CenId > cen - xxxx </ CenId >
      < Cidrs >
        < Cidr > 11 . 161 . 18 . 0 / 25 </ Cidr >
      </ Cidrs >
      < HostRegionId > cn - hangzhou </ HostRegionId >
      < AccessRegionId > cn - hangzhou </ AccessRegionId >
      < Host > 11 . 161 . 18 . 0 / 25 </ Host >
    </ RouteServiceEntry >
    < RouteServiceEntry >
      < Status > Active </ Status >
      < CenId > cen - xxxx </ CenId >
      < Cidrs >
        < Cidr > 11 . 161 . 19 . 0 / 25 </ Cidr >
      </ Cidrs >
      < HostRegionId > cn - hangzhou </ HostRegionId >
      < AccessRegionId > cn - hangzhou </ AccessRegionId >
      < Host > 11 . 161 . 19 . 0 / 25 </ Host >
    </ RouteServiceEntry >
    < RouteServiceEntry >
      < Status > Active </ Status >
      < CenId > cen - xxxx </ CenId >
      < Cidrs >
        < Cidr > 11 . 161 . 20 . 0 / 25 </ Cidr >
      </ Cidrs >
      < HostRegionId > cn - hangzhou </ HostRegionId >
      < AccessRegionId > cn - hangzhou </ AccessRegionId >
      < Host > 11 . 161 . 20 . 0 / 25 </ Host >
    </ RouteServiceEntry >
  </ RouteServiceEntries >
</ DescribeRouteService sInCenResponse >
```

JSON format

```
{
  " PageNumber ": 1 ,
  " TotalCount ": 3 ,
  " PageSize ": 10 ,
  " RouteServiceEntries ":{
    " RouteServiceEntry ":[
      {
        " Status ":" Active ",
        " Cidrs ":{
          " Cidr ":[
            " 11 . 161 . 18 . 0 / 25 "
          ]
        }
      },
      " Host ":" 11 . 161 . 18 . 0 / 25 ",
```



```

    " AccessRegi onId ":" cn - hangzhou ",
    " HostRegion Id ":" cn - hangzhou ",
    " CenId ":" cen - xxxx "
  },
  {
    " Status ":" Active ",
    " Cidrs ":{
      " Cidr ":[
        " 11 . 161 . 19 . 0 / 25 "
      ]
    },
    " Host ":" 11 . 161 . 19 . 0 / 25 ",
    " AccessRegi onId ":" cn - hangzhou ",
    " HostRegion Id ":" cn - hangzhou ",
    " CenId ":" cen - xxxx "
  },
  {
    " Status ":" Active ",
    " Cidrs ":{
      " Cidr ":[
        " 11 . 161 . 20 . 0 / 25 "
      ]
    },
    " Host ":" 11 . 161 . 20 . 0 / 25 ",
    " AccessRegi onId ":" cn - hangzhou ",
    " HostRegion Id ":" cn - hangzhou ",
    " CenId ":" cen - xxxx "
  }
]
}
}
}

```

Errors

For a list of error codes, visit the [API Error Center](#).

14.3 ResolveAndRouteServiceInCen

Adds cloud service access settings in Cloud Enterprise Network (CEN).

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required	Example value	Description
AccessRegi onIds . N	RepeatList	Yes	cn-hangzhou	The region of network instances that need to access the cloud service.

Parameter	Type	Required ?	Example value	Description
CenId	String	Yes	cen-ckwa2hhmuislse****	The ID of the CEN instance.
Host	String	Yes	100.64.1.0/24	The domain name or IP address of the cloud service.
HostRegionId	String	Yes	cn-beijing	The region of the cloud service.
Action	String	No	ResolveAndRouteServiceInCen	Optional. The name of this action. Value: ResolveAndRouteServiceInCen
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	Optional. The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and is unique among different requests. It is 1 to 64 ASCII characters in length.
HostVpcId	String	No	vpc-o6woh5s494zueq40v****	Optional. The VPC associated with the cloud service.
UpdateInterval	Long	No	5	Optional. The update interval. Default value: 5. The value cannot be modified.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	C0245BEF-52AC-44A8-A776-EF96FD26A5CA	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = ResolveAnd RouteServi
ceInCen
& AccessRegi onId = cn - hangzhou
& CenId = cen - ckwa2hhmui slse ****
& Host = 100 . 64 . 1 . 0 / 24
& HostRegion Id = cn - beijing
&< CommonPara meters >
```

Response example

XML format

```
< ResolveAnd RouteServi ceInCenRes ponse >
  < RequestId > 17A57456 - EF48 - 419D - 9AE6 - 9B03D99960 18
</ RequestId >
</ ResolveAnd RouteServi ceInCenRes ponse >
```

JSON format

```
{
  " RequestId ":" C0245BEF - 52AC - 44A8 - A776 - EF96FD26A5 CA "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

15 PrivateZone

15.1 RoutePrivateZoneInCenToVpc

Sets the PrivateZone service.

PrivateZone is a VPC-based resolution and management service for private domain names. Networks in a Cloud Enterprise Network (CEN) instance can access the PrivateZone service through CEN.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
AccessRegionId	String	Yes	cn-hangzhou	The access region. The access region is the region of the cloud resource that accesses the PrivateZone service through CEN.
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
HostRegionId	String	Yes	cn-hangzhou	The service region. The service region is the target region of the PrivateZone service to be accessed through CEN.
HostVpcId	String	Yes	cn-hangzhou	The VPC that belongs to the service region.

Parameter	Type	Required ?	Example value	Description
Action	String	No	RoutePrivateZoneInCentToVpc	Optional. The name of this action. Value: RoutePrivateZoneInCentToVpc

Response parameters

Parameter	Type	Example value	Description
RequestId	String	C0245BEF-52AC-44A8-A776-EF96FD26A5CA	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = RoutePrivateZoneInCentToVpc
& AccessRegionId = cn - hangzhou
& CenId = cen - 7qthudw0ll 6jmc ****
& HostRegionId = cn - hangzhou
& HostVpcId = cn - hangzhou
&< CommonParameters >
```

Response examples

XML format

```
< RoutePrivateZoneInCentToVpcResponse >
  < RequestId > A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A
</ RequestId >
</ RoutePrivateZoneInCentToVpcResponse >
```

JSON format

```
{
  " RequestId ":" C0245BEF - 52AC - 44A8 - A776 - EF96FD26A5 CA "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).

15.2 DescribeCenPrivateZoneRoutes

Queries the details of the PrivateZone service.

Debug

[Use OpenAPI Explorer to perform debug operations and generate SDK code examples.](#)

Request parameters

Parameter	Type	Required?	Example value	Description
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
AccessRegionId	String	No	cn-hangzhou	Optional. The access region. The access region is the region of the cloud resource that accesses the PrivateZone service through CEN.
Action	String	No	DescribeCenPrivateZoneRoutes	Optional. The name of this action. Value: DescribeCenPrivateZoneRoutes
HostRegionId	String	No	cn-hangzhou	Optional. The service region. The service region is the target region of the PrivateZone service accessed through CEN.
PageNumber	Integer	No	10	Optional. The page number. Default value: 1
PageSize	Integer	No	10	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10

Response parameters

Parameter	Type	Example value	Description
CenId	String	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of entries per page.
PrivateZoneDnsServers	String	100.100.xx.136/32,100.100.xx.138/32	The DNS IP addresses of the PrivateZone service.
PrivateZoneInfos			The details of the PrivateZone service.
AccessRegionId	String	cn-hangzhou	The access region. The access region is the region of the cloud resource that accesses the PrivateZone service through CEN.
HostRegionId	String	cn-hangzhou	The service region. The service region is the target region of the PrivateZone service accessed through CEN.
HostVpcId	String	vpc-bp18sth14qii3pnvo****	The VPC that belongs to the service region.
Status	String	Active	The status of the PrivateZone service.
RequestId	String	C0245BEF-52AC-44A8-A776-EF96FD26A5CA	The ID of the request.
TotalCount	Integer	10	The total number of queried entries.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeCe nPrivateZo
neRoutes
& CenId = cen - 7qthudw0ll 6jmc ****
&< CommonPara meters >
```

Response examples

XML format

```
< DescribeCe nPrivateZo neRoutesRe sponse >
  < PrivateZon eInfos >
    < PrivateZon eInfo >
      < Status > Active </ Status >
      < HostVpcId > vpc - bp18sth14q ii3pnvo ****</ HostVpcId >
      < AccessRegi onId > ccn - cn - shanghai </ AccessRegi onId >
    >
      < HostRegion Id > cn - hangzhou </ HostRegion Id >
    </ PrivateZon eInfo >
    < PrivateZon eInfo >
      < Status > Active </ Status >
      < HostVpcId > vpc - bp18sth14q ii3pnvo ****</ HostVpcId >
      < AccessRegi onId > cn - hangzhou </ AccessRegi onId >
      < HostRegion Id > cn - hangzhou </ HostRegion Id >
    </ PrivateZon eInfo >
  </ PrivateZon eInfos >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 2 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < PrivateZon eDnsServer s > 100 . 100 . xx . 136 / 32 , 100 . 100
. xx . 138 / 32 </ PrivateZon eDnsServer s >
  < RequestId > 461EC1B5 - 04A8 - 4706 - 8764 - 8F5BCEF48A 6F </
RequestId >
</ DescribeCe nPrivateZo neRoutesRe sponse >
```

JSON format

```
{
  " PrivateZon eInfos ":{
    " PrivateZon eInfo ":[
      {
        " Status ":" Active ",
        " HostVpcId ":" vpc - bp18sth14q ii3pnvo ****",
        " AccessRegi onId ":" ccn - cn - shanghai ",
        " HostRegion Id ":" cn - hangzhou "
      },
      {
        " Status ":" Active ",
        " HostVpcId ":" vpc - bp18sth14q ii3pnvo ****",
        " AccessRegi onId ":" cn - hangzhou ",
        " HostRegion Id ":" cn - hangzhou "
      }
    ]
  },
  " PageNumber ": 1 ,
  " TotalCount ": 2 ,
```



```

" PrivateZoneDnsServers ": [
  {
    " IpAddress ": " 100 . 100 . xx . 136 / 32 ",
    " PageSize ": 10 ,
    " RequestId ": " 461EC1B5 - 04A8 - 4706 - 8764 - 8F5BCEF48A 6F "
  }
]

```

Errors

For a list of error codes, visit the [API Error Center](#).

15.3 UnroutePrivateZoneInCenToVpc

Deletes a PrivateZone entry.

Debug

Use [OpenAPI Explorer](#) to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
AccessRegionId	String	Yes	cn-hangzhou	The access region. The access region is the region of the cloud resource that accesses the PrivateZone service through CEN.
CenId	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance.
Action	String	No	UnroutePrivateZoneInCenToVpc	Optional. The name of this action. Value: UnroutePrivateZoneInCenToVpc

Response parameters

Parameter	Type	Example value	Description
RequestId	String	C0245BEF-52AC-44A8-A776-EF96FD26A5CA	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/? Action = UnroutePri vateZoneIn
  CenToVpc
& AccessRegi onId = cn - hangzhou
& CenId = cen - 7qthudw0ll 6jmc ****
&< CommonPara meters >
```

Response examples

XML format

```
< UnroutePri vateZoneIn CenToVpcRe sponse >
  < RequestId > A278B8A6 - A5B8 - 4FDE - 9F70 - 95F0F6A1D6 8A </
  RequestId >
</ UnroutePri vateZoneIn CenToVpcRe sponse >
```

JSON format

```
{
  " RequestId ":" C0245BEF - 52AC - 44A8 - A776 - EF96FD26A5 CA "
}
```

Errors

For a list of error codes, visit the [API Error Center](#).