

# Alibaba Cloud Smart Access Gateway

## API Reference

Issue: 20190617

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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.	 <b>Danger:</b> 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.	 <b>Warning:</b> 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.	 <b>Notice:</b> 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.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
<b>Bold</b>	It is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
<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

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Smart Access Gateway APIs are listed here.

API	Description
<a href="#">ModifySmartAccessGateway</a>	Modify the configurations of a Smart Access Gateway instance.
<a href="#">DescribeSmartAccessGateways</a>	Query created Smart Access Gateway instances.
<a href="#">BindSmartAccessGateway</a>	Bind a Smart Access Gateway instance to a CCN instance.
<a href="#">UnbindSmartAccessGateway</a>	Unbind a Smart Access Gateway instance from a CCN instance.
<a href="#">DescribeSmartAccessGatewayVersions</a>	Query the software version of a Smart Access Gateway instance.
<a href="#">GetSmartAccessGatewayUseLimit</a>	Query the number of Smart Access Gateway instances that can be purchased .
<a href="#">UpdateSmartAccessGatewayVersion</a>	Upgrade the software version of a Smart Access Gateway.
<a href="#">CreateCloudConnectNetwork</a>	Create a CCN instance.
<a href="#">DescribeCloudConnectNetworks</a>	Query created CCN instances.
<a href="#">ModifyCloudConnectNetwork</a>	Modify the name and description of a CCN instance.
<a href="#">DeleteCloudConnectNetwork</a>	Delete a CCN instance.
<a href="#">GetCloudConnectNetworkUseLimit</a>	Query the number of CCN instances that the account can create in the area.
<a href="#">Describeregions</a>	Query available areas.

## 2 Call Smart Access Gateway APIs

---

To call a Smart Access Gateway API, you can send an HTTP GET request to the address of the Smart Access Gateway API server, and add request parameters in the request according to the API description. The system then returns the result. The request and the response are encoded using the UTF-8 character set.

### Request structure

Smart Access Gateway APIs are of the RPC type. You can call Smart Access Gateway APIs by sending HTTP GET requests.

The request structure is as follows:

```
http :// endpoint /? Action = xx & parameters
```

where:

- **Endpoint:** The entry of the Alibaba Cloud service to call. The end point of Smart Access Gateway is `smartag.cn-shanghai.aliyuncs.com`.
- **Action:** The action to perform. For example, use the `DescribeSmartAccessGateways` API to query created Smart Access Gateway instances.
- **Version:** The version of the VPI to use. The version of the Smart Access Gateway APIs is `2018-03-13`.
- **Parameters:** Request parameters separated by ampersands (&).

Request parameters consist of common parameters and API specific parameters. Common parameters include API version, credentials and more.

The following example uses the `DescribeSmartAccessGateways` API to query the created Smart Access Gateway instances:

For easy reading, the API request is displayed in the following format in the document :

```
https :// smartag . cn - shanghai . aliyuncs . com /? Action =  
DescribeSm artAccessG ateways  
& Format = xml  
& Version = 2018 - 03 - 13  
& Signature = xxxx % xxxx % 3D  
& SignatureM ethod = HMAC - SHA1  
& SignatureN once = 1521552885 2396
```

```
& SignatureVersion = 1.0  
& AccessKeyId = key-test  
& Timestamp = 2018-04-01T12:00:00Z
```

## API authorization

For security purposes, we recommend that you grant a RAM account the permission to call APIs. Before a RAM user can start to call APIs, you must grant the RAM user permission by creating an authorization policy and attaching the policy to the RAM user. For more information, see [RAM authentication](#).

## API signature

To ensure the security of your API, you must sign the API request. Alibaba Cloud then uses the signature in the request to verify the identity of the user who calls the API.

Smart Access Gateway uses `AccessKeyId` and `AccessKeySecret` for symmetric encryption to verify the identity of the caller. `AccessKey` is a type of credential (similar to password) for Alibaba Cloud accounts and RAM users, where the `AccessKeyId` identifies the callers and the `AccessKeySecret` is a secret key for encrypting and verifying the signature string. The `AccessKeySecret` must be kept confidential.

For more information, see [RPC API signature](#).

For an RPC API, you must add the signature to the API request in the following format:

```
https://endpoint/?SignatureVersion=1.0&SignatureMethod=HMAC-SHA1&Signature=CT9X0VtwR86fNWSnsc6v8YG0juE%3D&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf
```

Take `DescribeSmartAccessGateways` as an example. If the `AccessKey ID` is `testid`, the `AccessKey Secret` is `testsecret`, and the original request URL is as follows:

```
https://smartag.cn-shanghai.aliyuncs.com/?Action=DescribeSmartAccessGateways  
& Timestamp = 2016-04-23T12:46:24Z  
& Format = XML  
& AccessKeyId = testid  
& SignatureMethod = HMAC-SHA1  
& SignatureNonce = 3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf  
& Version = 2018-03-13  
& SignatureVersion = 1.0
```

To calculate the signature, follow these steps:

### 1. Use the request parameters to create a canonicalized query string to sign.

```
GET %2F&AccessKeyId=testid&Action=DescribeSmartAccessGateways&Format=XML&SignatureMethod=HMAC-SHA1&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf&SignatureVersion=1.0&Timestamp=2018-04-23T12:25:30.46Z&Version=2018-03-13
```

### 2. Calculate the HMAC value of the string to sign according to RFC 2104. The key used for calculation is the AccessKey Secret appended with an ampersand (&). In this example, the key is `testsecret &`;

The resulting signature in this example is as follows:

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

### 3. Add the signature to the request URL.

```
https://smartag.cn-shanghai.aliyuncs.com/?Action=DescribeSmartAccessGateways&Timestamp=2018-04-23T12:46:24Z&Format=XML&AccessKeyId=testid&SignatureMethod=HMAC-SHA1&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf&Version=2018-03-13&SignatureVersion=1.0&Signature=CT9X0VtwR8%206fNWSnsc6v%208YGOjuE%3D
```

## 3 RAM authentication

Before calling Smart Access Gateway APIs using a RAM account, you must grant the RAM account the corresponding permission from the primary account by creating an authentication policy. In the authentication policy, an Alibaba Cloud Resource Name (ARN) is used as the unique identifier of the resource to authorize. The following table lists the resource names of Smart Access Gateway APIs.

VPC resources	Resource description in the authorization rule
CreateSmartAccessGateway	acs:smartag:{\$region-id}:{\$resource-owner-id}:smartag/*
UpdateSmartAccessGatewayVersion	acs:smartag:{\$region-id}:{\$resource-owner-id}:smartag/{smartag-id}
DescribeSmartAccessGateways	acs:smartag:{\$region-id}:{\$resource-owner-id}:smartag/*
ModifySmartAccessGateway	acs:smartag:{\$region-id}:{\$resource-owner-id}:smartag/{smartag-id}
GetSmartAccessGatewayUseLimit	acs:smartag:{\$region-id}:{\$resource-owner-id}:smartag/*
GetCloudConnectNetworkUseLimit	acs:smartag:{\$region-id}:{\$resource-owner-id}:ccn/*
CreateCloudConnectNetwork	acs:smartag:{\$region-id}:{\$resource-owner-id}:ccn/*
DeleteCloudConnectNetwork	acs:smartag:{\$region-id}:{\$resource-owner-id}:ccn/{ccnid}
ModifyCloudConnectNetwork	acs:smartag:{\$region-id}:{\$resource-owner-id}:ccn/{ccnid}
DescribeCloudConnectNetworks	acs:smartag:{\$region-id}:{\$resource-owner-id}:ccn/*
BindSmartAccessGateway	acs:smartag:{\$region-id}:{\$resource-owner-id}:ccn/{ccnid} acs:smartag:{\$region-id}:{\$resource-owner-id}:smartag/{smartag-id}

VPC resources	Resource description in the authorization rule
UnbindSmartAccessGateway	acs:smartag:\${region-id}:\${resource-owner-id}:ccn/\${ccnid} acs:smartag:\${region-id}:\${resource-owner-id}:smartag/\${smartag-id}
ActivateSmartAccessGateway	acs:smartag:\${region-id}:\${resource-owner-id}:smartag/\${smartag-id}

## 4 Common parameters

### Common request parameters

Name	Type	Require	Description
Format	String	No	The format of the response. Valid values: JSON ( default )   XML
Version	String	Yes	The API version in the format of <code>YYYY - MM - DD</code> . Valid value: 2018 - 03 - 13
AccessKeyId	String	Yes	The AccessKey ID of the user who calls the API.
Signature	String	Yes	The signature result string.
SignatureMethod	String	Yes	The algorithm used to create the request signature. Valid value: HMAC - SHA1
Timestamp	String	Yes	The time at which the request is signed in the <code>YYYY - MM - DDThh : mm : ssZ</code> format. Example: 2014-05-26T12:00:00Z.
SignatureVersion	String	Yes	The signature algorithm version to use. Valid value: 1 . 0
SignatureNonce	String	Yes	A unique random number used to prevent network replay attacks. Each request must use a unique random number.
ResourceOwnerAccount	String	No	The account of the owner of the requested resource. Use the logon account name.

### Examples

```
https://smartag.aliyuncs.com/?Action=DescribeSmartAccessGateways
&Format=xml
&Version=2018-03-13
```

```
& Signature = xxxx % xxxx % 3D
& SignatureM ethod = HMAC - SHA1
& SignatureN once = 1521552885 2396
& SignatureV ersion = 1 . 0
& AccessKeyI d = key - test
& Timestamp = 2018 - 04 - 01T12 : 00 : 00Z
```

## Common response parameters

**A** `RequestId` is always returned, even if the request is unsuccessful.

- XML format

```
<? xml version =" 1 . 0 " encoding =" utf - 8 "? >
  <!-- The root node of the result -->
  < Action + Response >
    <!-- The returned result -->
    < RequestId > 4C467B38 - 3910 - 447D - 87BC - AC049166F2 16
  </ RequestId >
  <!-- The returned result -->
  </ Action + Response >
```

- JSON format:

```
{
  " RequestId ":" 4C467B38 - 3910 - 447D - 87BC - AC049166F2 16
",
  /* The returned result */
}
```



## 5 Cloud Connect Network

### 5.1 DeleteCloudConnectNetwork

You can use the `DeleteCloudConnectNetwork` API to delete a CCN instance.



**Note:**

Make sure the CCN instance to delete is not associated with any Smart Access Gateway instance or CEN instance.

#### Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: <code>DeleteCloudConnectNetwork</code>
CcnId	String	Yes	The ID of the CCN instance.
RegionId	String	No	The area of the CCN instance. Valid value: <code>cn-shanghai</code> : Mainland China

#### Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

#### Examples

##### Request example

```
https://smartag.cn-shanghai.aliyuncs.com/?Action=DeleteCloudConnectNetwork&CcnId=ccn-bxuau4ezct-ts2kfyx&CommonParameters
```

##### Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DeleteCloudConnectNetworkResponse>
```

```
< RequestId > 0BAAF2B9 - 88B8 - 4574 - BDBE - 102A90EE3F EE </
RequestId >
</ DeleteCloudConnectNetworkResponse >
```

- JSON format

```
{
  "RequestId ":" 0BAAF2B9 - 88B8 - 4574 - BDBE - 102A90EE3F EE "
}
```

## 5.2 GetCloudConnectNetworkUseLimit

Query the maximum number of CCN instances that the account can create in the area.

### Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: GetCloudConnectNetworkUseLimit
RegionId	String	No	The area of the CCN instance. Valid value: cn - shanghai : Mainland China

### Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
TotalAmount	Integer	The maximum number of CCN instances that you can create in the area.
UsedAmount	Integer	The number of created CCN instances.

### Examples

#### Request example

```
https://smartag.cn-shanghai.aliyuncs.com/?Action=
GetCloudConnectNetworkUseLimit
&RegionId=cn-shanghai
```

## &amp; CommonParameters

## Response example

## • XML format

```
<? xml version = " 1 . 0 " encoding = " UTF - 8 " ? >
< GetCloudCo nnectNetwo rkUseLimit Response >
  < RequestId > BCD04867 - 56C3 - 43DC - 8FEF - 923EFB8B56 DA </
  RequestId >
  < TotalAmoun t > 10 </ TotalAmoun t >
  < UsedAmount > 6 </ UsedAmount >
</ GetCloudCo nnectNetwo rkUseLimit Response >
```

## • JSON format

```
{
  " RequestId ": " BCD04867 - 56C3 - 43DC - 8FEF - 923EFB8B56 DA ",
  " TotalAmoun t ": 10 ,
  " UsedAmount ": 6
}
```

## 5.3 CreateCloudConnectNetwork

Create a CCN instance. CCN is a device matrix composed of Alibaba Cloud distributed Smart Access Gateways. You can bind a CCN instance to a CEN instance to connect your local branches to Alibaba Cloud.

## Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: CreateClou dConnectNe twork
Name	String	No	The name of the CCN instance. The name can contain 2 to 128 characters including a-z, A-Z, 0-9, periods, underlines, and hyphens. The name must start with an English letter, but cannot start with <code>http ://</code> or <code>https ://</code> .

Name	Type	Required	Description
Description	String	No	The description of the CCN instance. The description can contain 2 to 256 characters. The description must start with English letters, but cannot start with <code>http://</code> or <code>https://</code> .
RegionId	String	No	The area of the CCN instance. Valid value: <code>cn-shanghai</code> : Mainland China

### Response parameters

Name	Type	Description
RequestId	String	The ID of the request.
CcnId	String	The ID of the CCN instance.
Name	String	The name of the CCN instance.
Description	String	The description of the CCN instance.

### Examples

#### Request example

```
https://smartag.cn-shanghai.aliyuncs.com/?Action=CreateCloudConnectNetwork
&Name=DocTest
&CommonParameters
```

#### Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<CreateCloudConnectNetworkResponse>
  <Name>DocTest</Name>
  <Status>Active</Status>
  <RequestId>F0C4D78D-C60E-4A3B-A652-3A2835305C0B</RequestId>
  <CcnId>ccn-l9340rlu5e-nstmzj5i</CcnId>
```

```
</ CreateCloudConnectNetworkResponse >
```

- JSON format

```
{
  " Name ": " DocTest ",
  " Status ": " Active ",
  " RequestId ": " F0C4D78D - C60E - 4A3B - A652 - 3A2835305C 0B ",
  " CcnId ": " ccn - l9340rlu5e nstmzj5i "
}
```

## 5.4 ModifyCloudConnectNetwork

Modify the name and description of a CCN instance.

### Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: ModifyCloudConnectNetwork
RegionId	String	Yes	The area of the CCN instance. Valid value: cn - shanghai : Mainland China
CcnId	String	Yes	The ID of the CCN instance.
Name	String	No	The name of the CCN instance.  The name can contain 2 to 128 characters including a-z, A-Z, 0-9, periods, underlines, and hyphens. The name must start with an English letter, but cannot start with <code>http ://</code> or <code>https ://</code> .
Description	String	No	The description of the CCN instance.  The description can contain 2 to 256 characters. The description must start with English letters, but cannot start with <code>http ://</code> or <code>https ://</code> .

## Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

## Examples

## Request example

```
https://smartag.cn-shanghai.aliyuncs.com/?Action=
ModifyCloudConnectNetwork
&RegionId=cn-shanghai
&CcnId=ccn-l9340rlu5e-nstmzj5
&Description=ConnectChina
&CommonParameters
```

## Response example

## • XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<ModifyCloudConnectNetworkResponse>
  <RequestId>0BAAF2B9-88B8-4574-BDBE-102A90EE3FEE</
  RequestId>
</ModifyCloudConnectNetworkResponse>
```

## • JSON format

```
{
  "RequestId": "0BAAF2B9-88B8-4574-BDBE-102A90EE3FEE"
}
```

## 5.5 DescribeCloudConnectNetworks

Query created CCN instances.

## Request parameters

Name	Type	Required	Description
Action	String	Yes	The action to perform. Valid value: DescribeCloudConnectNetworks
RegionId	String	No	The area of the CCN instance. Valid value: cn-shanghai : Mainland China
Name	String	No	The name of the CCN instance.

Name	Type	Required	Description
CcnId	String	No	The ID of the CCN 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.
PageNumber	Integer	The current page number.
TotalCount	Integer	The number of queried entries.
PageSize	Integer	The number of entries on the current page.
CloudConnectNetworks	List	A list of CCN instances.

Table 5-1: CloudConnectNetwork

Name	Type	Description
CcnId	String	The ID of the CCN instance.
Name	String	The name of the CCN instance.
Description	String	The description of the CCN instance.
AssociatedCloudBoxCount	String	Smart Access Gateway instances bound to the CCN instance.
AvailableCloudBoxCount	Integer	The number of available Smart Access Gateway instances bound to the CCN instance.

Name	Type	Description
Associated CenId	String	The ID of the CEN instance bound to the CCN instance.
Associated CenOwnerId	String	The owner ID of the CEN instance.
CreateTime	Long	The time the CCN instance is created.

## Examples

### Request example

```
https://smartag.cn-shanghai.aliyuncs.com/?Action=DescribeCloudConnectNetworks&CommonParameters
```

### Response example

- XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<DescribeCloudConnectNetworksResponse>
  <CloudConnectNetworks>
    <CloudConnectNetwork>
      <Name>DocTest</Name>
      <AvailableCloudBoxCount>2</AvailableCloudBoxCount>
      <AssociatedCenOwnerId>1954105122 583124</AssociatedCenOwnerId>
      <IsDefault>false</IsDefault>
      <AssociatedCloudBoxCount>3</AssociatedCloudBoxCount>
      <CreateTime>1523618639000</CreateTime>
      <CcnId>ccn-l9340rlu5e nstmzj5i</CcnId>
    </CloudConnectNetwork>
    <CloudConnectNetwork>
      <Name>CEN test</Name>
      <Description></Description>
      <AvailableCloudBoxCount>0</AvailableCloudBoxCount>
      <AssociatedCenOwnerId>1954105122 583124</AssociatedCenOwnerId>
      <IsDefault>false</IsDefault>
      <AssociatedCloudBoxCount>0</AssociatedCloudBoxCount>
      <CreateTime>1523190009000</CreateTime>
      <CcnId>ccn-oa5ftyg6t4 8gnhb61k</CcnId>
    </CloudConnectNetwork>
  </CloudConnectNetworks>
  <PageNumber>1</PageNumber>
  <TotalCount>3</TotalCount>
  <PageSize>10</PageSize>
  <RequestId>3F2A0B80-D6D1-4764-8D77-38067DBBA345</RequestId>
```



```
</ DescribeCloudConnect NetworksResponse >
```

- JSON format

```
{
  "CloudConnectNetworks": {
    "CloudConnectNetwork": [
      {
        "Name": " DocTest ",
        "AvailableCloudBoxCount": 2 ,
        "AssociatedCenOwnerId": " 1954105122 583124 ",
        "IsDefault": false ,
        "AssociatedCloudBoxCount": 3 ,
        "CreateTime": 1523618639 000 ,
        "CcnId": " ccn - l9340rlu5e nstmzj5i "
      },
      {
        "Name": " CEN test ",
        "Description": "",
        "AvailableCloudBoxCount": 0 ,
        "AssociatedCenOwnerId": " 1954105122 583124 ",
        "IsDefault": false ,
        "AssociatedCloudBoxCount": 0 ,
        "CreateTime": 1523190009 000 ,
        "CcnId": " ccn - oa5ftyg6t4 8gnhb61k "
      }
    ]
  },
  "PageNumber": 1 ,
  "TotalCount": 3 ,
  "PageSize": 10 ,
  "RequestId": " 3F2A0B80 - D6D1 - 4764 - 8D77 - 38067DBBA3 45 "
}
```

## 6 Access Control List (ACL)

### 6.1 DescribeACLs

Queries one or more Access Control Lists (ACLs) in a region.

#### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

#### Request parameters

Parameter	Type	Required ?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACLs belongs.
AclIds	String	No	acl-xhwhyuo43l *****	A list of ACL IDs. Separate multiple IDs with commas. If this parameter is not specified, all ACL rules in a region are queried.
Action	String	No	DescribeACLs	The name of this action. Value: DescribeACLs.
Name	String	No	test	The name of the ACL.
PageNumber	Integer	No	1	The number of pages to return. Default value: 1.
PageSize	Integer	No	1	The number of entries per page. Maximum value: 50. Default value: 10.

#### Response parameters

Parameter	Type	Example value	Description
Acls	N/A	N/A	A list of ACLs.
<sup>L</sup> AclId	String	acl-ohlexqptfhy *****	The ID of the ACL.

Parameter	Type	Example value	Description
↳Name	String	test	The name of the ACL.
↳SagCount	String	3	The number of attached SAG instances.
PageNumber	Integer	1	The number of pages to return.
PageSize	Integer	2	The number of entries per page.
RequestId	String	3200E8A3-563F-4FFC-8BDB-0F1263FA69E8	The ID of the request.
TotalCount	Integer	3	The number of queried entries.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? RegionId = cn - hangzhou
&< CommonPara meters >
```

### Response example

- XML format

```
< DescribeAC Ls >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 3 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 3200E8A3 - 563F - 4FFC - 8BDB - 0F1263FA69 E8 </
RequestId >
  < Acls >
    < Acl >
      < Name > vmeixme </ Name >
      < SagCount > 0 </ SagCount >
      < AclId > acl - e30a66to95 csjy75r9 </ AclId >
    </ Acl >
    < Acl >
      < Name > test </ Name >
      < SagCount > 0 </ SagCount >
      < AclId > acl - ohlexqptfh ygf4xebg </ AclId >
    </ Acl >
    < Acl >
      < Name > test </ Name >
      < SagCount > 3 </ SagCount >
      < AclId > acl - xhwhyuo43l 0n2b832u </ AclId >
    </ Acl >
  </ Acls >
</ DescribeAC Ls >
```

- JSON format

```
{
  " PageNumber ": 1 ,
```

```

" TotalCount ": 3 ,
" PageSize ": 10 ,
" RequestId ":" 3200E8A3 - 563F - 4FFC - 8BDB - 0F1263FA69 E8 ",
" Acls ":{
  " Acl ":[
    {
      " Name ":" vmeixme ",
      " SagCount ": 0 ,
      " AclId ":" acl - e30a66to95 csjy75r9 "
    },
    {
      " Name ":" test ",
      " SagCount ": 0 ,
      " AclId ":" acl - ohlexqptfh ygf4xebg "
    },
    {
      " Name ":" test ",
      " SagCount ": 3 ,
      " AclId ":" acl - xhwhyuo43l 0n2b832u "
    }
  ]
}
}
}

```

### Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidParameter	The specified parameter is invalid.	The specified parameter is invalid.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 6.2 ModifyACL

Modifies an Access Control List (ACL).

## Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

## Request parameters

Parameter	Type	Required ?	Example value	Description
AclId	String	Yes	acl-e30a66to95 cs*****	The ID of the ACL.
Name	String	Yes	test	The name of the ACL.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL belongs.
Action	String	No	ModifyACL	The name of this action. Value: ModifyACL

## Response parameters

Parameter	Type	Example value	Description
RequestId	String	076FD0BE-67D5-4338-A2A1-C54DE7D78B16	The ID of the request.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? AclId = acl - e30a66to95  cs *****
& Name = test
& RegionId = cn - hangzhou
&< CommonPara meters >
```

### Response example

- XML format

```
< ModifyACL >
  < RequestId > 076FD0BE - 67D5 - 4338 - A2A1 - C54DE7D78B 16 </
  RequestId >
</ ModifyACL >
```

- JSON format

```
{
  " RequestId ":" 076FD0BE - 67D5 - 4338 - A2A1 - C54DE7D78B 16 "
```

}

## Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidName	Name not valid.	The name of the ACL is invalid.
403	InvalidId.ACL	The specified ACL ID is invalid.	The ID of the ACL is invalid.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 6.3 DeleteACL

Deletes an Access Control List (ACL).

### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

### Request parameters

Parameter	Type	Required?	Example	Description
ACLId	String	Yes	acl-ohlexqptfhy*****	The ID of the ACL.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL belongs.

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

### Response parameters

Parameter	Type	Example value	Description
RequestId	String	00546174-2CE6-4587-9550-04B6A3313938	The ID of the request.

### Examples

#### Request example

```
http ( s )://[ Endpoint ]/? AclId = acl - ohlexqptfh y *****
& RegionId = cn - hangzhou
&< CommonParameters >
```

#### Response example

- XML format

```
< DeleteACL >
  < RequestId > 00546174 - 2CE6 - 4587 - 9550 - 04B6A33139 38 </
  RequestId >
</ DeleteACL >
```

- JSON format

```
{
  " RequestId ":" 00546174 - 2CE6 - 4587 - 9550 - 04B6A33139 38 "
}
```

### Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.

HTTP status code	Error code	Error message	Description
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidId.ACL	The specified ACL ID is invalid.	The ID of the ACL is invalid.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.
403	FeatureNotSupport	The current edition of the smart access gateway does not support this feature.	The current version of the Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForActiveSmartAG	The current edition of the active smart access gateway does not support this feature.	The current version of the active Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForStandBySmartAG	The current edition of the standby smart access gateway does not support this feature.	The current version of the standby Smart Access Gateway device does not support this feature.

[See common error codes](#)

## 6.4 AssociateACL

Associates an Access Control List (ACL) with a Smart Access Gateway instance.

### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.



## Request parameters

Parameter	Type	Required ?	Example value	Description
Action	String	No	AssociateACL	The name of this action.  Value: AssociateACL
AclId	String	Yes	acl-ohlexqptfh y*****	The ID of the ACL.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL belongs.
SmartAGId	String	Yes	sag- 4yr0p2xa6o3k *****	The Smart Access Gateway instance to be associated with the ACL.

## Response parameters

Parameter	Type	Example value	Description
RequestId	String	C9A75915-0260 -4335-851A- D866A7ED396C	The ID of the request.

## Examples

## Request example

```
http ( s ) : // [ Endpoint ] / ? AclId = acl - ohlexqptfh y *****
& RegionId = cn - hangzhou
& SmartAGId = sag - 4yr0p2xa6o 3k *****
&< CommonParameters >
```

## Response example

## XML format

```
< AssociateACL >
  < RequestId > 00546174 - 2CE6 - 4587 - 9550 - 04B6A33139 38 </
  RequestId >
</ AssociateACL >
```

## JSON format

```
{
```

```
" RequestId ":" C9A75915 - 0260 - 4335 - 851A - D866A7ED39 6C "
}
```

## Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidId.SMARTAG	The specified smart access gateway instance id is invalid.	The Smart Access Gateway ID is invalid.
403	FeatureNotSupport	The current edition of the smart access gateway does not support this feature.	The current version of the Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForActiveSmartAG	The current edition of the active smart access gateway does not support this feature.	The current version of the active Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForStandBySmartAG	The current edition of the standby smart access gateway does not support this feature.	The current version of the standby Smart Access Gateway device does not support this feature.
403	SmartAGAlreadyAssociateAcl	The specified smart access gateway has already been associated with the specified ACL.	The specified Smart Access Gateway is already associated with the specified ACL.
403	AclPerSmartagAmountLimit	No more ACL can be associated with this smart access gateway.	The quota for ACLs that can be associated with the Smart Access Gateway has been reached.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.

HTTP status code	Error code	Error message	Description
403	InvalidId.ACL	The specified ACL ID is invalid.	The specified ACL ID is invalid.

[See common error codes](#)

## 6.5 DisassociateACL

Disassociates a Smart Access Gateway instance from an access control list (ACL).

### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

### Request parameters

Parameter	Type	Required ?	Example value	Description
Action	String	No	DisassociateACL	The name of this action. Value: DisassociateACL
AclId	String	Yes	acl-xhwhyuo43l0 *****	The ID of the ACL.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL belongs.
SmartAGId	String	Yes	sag-ke3kq4evpi8 *****	The ID of the Smart Access Gateway instance to be disassociated from the ACL.

## Response parameters

Parameter	Type	Example value	Description
RequestId	String	B28A9AB3-05BD-4A88-AB6A-A555A0BF70C0	The ID of the request.

## Examples

## Request example

```
http ( s )://[ Endpoint ]/? AclId = acl - xhwhyuo43l 0 *****
& RegionId = cn - hangzhou
& SmartAGId = sag - ke3kq4evpi 8 *****
&< CommonPara meters >
```

## Response example

## XML format

```
< Disassocia teACL >
  < RequestId > 00546174 - 2CE6 - 4587 - 9550 - 04B6A33139 38 </
  RequestId >
</ Disassocia teACL >
```

## JSON format

```
{
  " RequestId ":" B28A9AB3 - 05BD - 4A88 - AB6A - A555A0BF70 C0 "
}
```

## Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidId.SMARTAG	The specified smart access gateway instance id is invalid.	The specified Smart Access Gateway ID is invalid.

HTTP status code	Error code	Error message	Description
403	FeatureNotSupport	The current edition of the smart access gateway does not support this feature.	The current version of the Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForActiveSmartAG	The current edition of the active smart access gateway does not support this feature.	The current version of the active Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForStandBySmartAG	The current edition of the standby smart access gateway does not support this feature.	The current version of the standby Smart Access Gateway device does not support this feature.
403	InvalidId.ACL	The specified ACL ID is invalid.	The specified ACL ID is invalid.
403	SmartAGNotAssociateAcl	The specified smart access gateway is not associated with the specified ACL.	The specified Smart Access Gateway is not associated with the specified ACL.
403	InternalError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 6.6 AddACLRule

Adds an Access Control List (ACL) rule.

### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

## Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	No	AddACLRule	The name of this action. Value: AddACLRule
AclId	String	Yes	acl-xhwhyuo43l0n*****	The ID of the ACL.
DestCidr	String	Yes	0.0.0.0/0	The destination address. It is an IPv4 address range in CIDR format. Default value: 0 . 0 . 0 . 0 / 0
DestPortRange	String	Yes	10	The range of the destination port. Valid value: 80 / 80 .
Direction	String	Yes	in	The direction of the ACL rule. Valid values: in   out
IpProtocol	String	Yes	tcp	The protocol used by the ACL rule. The value is not case sensitive.
Policy	String	Yes	accept	The policy used by the ACL rule. Valid values: accept   drop
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL rule belongs.
SourceCidr	String	Yes	0.0.0.0/0	The source address. It is an IPv4 address range in the CIDR format. Default value: 0 . 0 . 0 . 0 / 0
SourcePortRange	String	Yes	20	The range of the source port. Valid value: 80 / 80
Description	String	No	test	The description of the ACL rule . It must be 1 to 512 characters in length.

Parameter	Type	Required ?	Example value	Description
Priority	Integer	No	12	The priority of the ACL rule. Value range: 1 to 100 . Default value: 1

## Response parameters

Parameter	Type	Example value	Description
AclId	String	acl-xhwhyuo43l0 *****	The ID of the ACL.
AcrId	String	acr-clhkd054qy wi*****	The ID of the ACL rule.
Description	String	3	The description of the ACL rule. It must be 1 to 512 characters in length.
DestCidr	String	0.0.0.0/0	The destination address. It is an IPv4 address range in the CIDR format. Default value: 0 . 0 . 0 . 0 / 0
DestPortRange	String	80/80	The range of the destination port. Valid value: 80 / 80
Direction	String	in	The direction of the ACL rule. Valid values: in   out
GmtCreate	Long	1553766882689	The time at which the ACL rule was created. It is a long type timestamp . When the priority is the same, the smaller timestamp takes effect.
IpProtocol	String	tcp	The protocol used by the ACL rule. It is not case sensitive.

Parameter	Type	Example value	Description
Policy	String	accept	The policy used by the ACL rule. Valid values: accept   drop
Priority	Integer	23	The priority of the ACL rule. Value range: 1 to 100 . Default value: 1 .
RequestId	String	880F84CB-9B54-4413-A8A3-8832C82D1BC4	The ID of the request.
SourceCidr	String	0.0.0.0/0	The source address. It is an IPv4 address range in the CIDR format. Default value: 0 . 0 . 0 . 0 / 0
SourcePort Range	String	80/80	The range of the source port. Valid value: 80 / 80

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? AclId = acl - xhwhyuo43l 0n *****
& DestCidr = 0 . 0 . 0 . 0 / 0
& DestPortRange = 10
& Direction = in
& IpProtocol = tcp
& Policy = accept
& RegionId = cn - hangzhou
& SourceCidr = 0 . 0 . 0 . 0 / 0
& SourcePort Range = 20
&< CommonParameters >
```

### Response example

#### XML format

```
< AddACLRule >
  < AcrId > acr - c1hkd054qy wiw21ef3 </ AcrId >
  < GmtCreate > 1553766882 689 </ GmtCreate >
  < Direction > out </ Direction >
  < Priority > 1 </ Priority >
  < IpProtocol > TCP </ IpProtocol >
  < SourceCidr > 192 . 168 . 3 . 0 / 24 </ SourceCidr >
  < SourcePort Range > 1 / 65535 </ SourcePort Range >
  < AclId > acl - xhwhyuo43l 0n2b832u </ AclId >
  < Policy > drop </ Policy >
  < RequestId > 880F84CB - 9B54 - 4413 - A8A3 - 8832C82D1B C4 </
  RequestId >
```



```
< DestPortRa nge > 1 / 65535 </ DestPortRa nge >
< DestCidr > 10 . 0 . 0 . 1 / 32 </ DestCidr >
</ AddACLRule >
```

### JSON format

```
{
  " IpProtocol ":" TCP ",
  " SourceCidr ":" 192 . 168 . 3 . 0 / 24 ",
  " SourcePort Range ":" 1 / 65535 ",
  " AclId ":" acl - xhwhyuo43l 0n2b832u ",
  " AcrId ":" acr - clhkd054qy wiw21ef3 ",
  " Policy ":" drop ",
  " RequestId ":" 880F84CB - 9B54 - 4413 - A8A3 - 8832C82D1B C4 ",
  " DestPortRa nge ":" 1 / 65535 ",
  " DestCidr ":" 10 . 0 . 0 . 1 / 32 ",
  " GmtCreate ": 1553766882 689 ,
  " Direction ":" out ",
  " Priority ": 1
}
```

### Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidDescription	Description not valid.	The length of the description has exceeded the limit.
403	InvalidParameter	The specified parameter is invalid.	The specified parameter is invalid.
403	FeatureNotSupport	The current edition of the smart access gateway does not support this feature.	The current version of the Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForActiveSmartAG	The current edition of the active smart access gateway does not support this feature.	The current version of the active Smart Access Gateway device does not support this feature.

HTTP status code	Error code	Error message	Description
403	FeatureNotSupportForStandBySmartAG	The current edition of the standby smart access gateway does not support this feature.	The current version of the standby Smart Access Gateway device does not support this feature.
403	NotSupportedProtocol	The specified protocol of the ACL rule is not supported.	The specified protocol of the ACL rule is not supported.
403	InvalidId.ACL	The specified ACL ID is invalid.	The specified ACL ID is invalid.
403	InvalidPortRange	The specified port range is invalid.	The specified port range is invalid.
403	AcrPerAclAmountLimit	The maximum number of rules in an ACL is exceeded. You can open a ticket to increase the quota.	The quota for ACL rules that can be added to an ACL has been reached. To increase the quota, open a ticket.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 6.7 DeleteACLRule

Deletes an Access Control List (ACL) rule.

### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

## Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	No	DeleteACLRule	The name of this action. Valid value: DeleteACLRule
AclId	String	Yes	acl-xhwhyuo43l0n*****	The ACL to which the ACL rule belongs.
AcrId	String	Yes	acr-c1hkd054qywiw*****	The ACL rule to be deleted.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL rule belongs.

## Response parameters

Parameter	Type	Example value	Description
RequestId	String	39E71162-699A-4E02-AF0F-17621BA6AEF6	The ID of the request.

## Examples

## Request example

```
http ( s )://[ Endpoint ]/? AclId = acl - xhwhyuo43l 0n *****
& AcrId = acr - c1hkd054qy wiw *****
& RegionId = cn - hangzhou
&< CommonPara meters >
```

## Response example

## XML format

```
< DeleteACLRule >
  < RequestId > 39E71162 - 699A - 4E02 - AF0F - 17621BA6AE F6 </
  RequestId >
</ DeleteACLRule >
```

## JSON format

```
{
```

```
" RequestId ":" 39E71162 - 699A - 4E02 - AF0F - 17621BA6AE F6 "
}
```

## Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidId.ACL	The specified ACL ID is invalid.	The specified ACL ID is invalid.
403	InvalidId.ACR	The specified ACL rule ID is invalid.	The specified ACL rule ID is invalid.
403	FeatureNotSupport	The current edition of the smart access gateway does not support this feature.	The current version of the Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForActiveSmartAG	The current edition of the active smart access gateway does not support this feature.	The current version of the active Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForStandBySmartAG	The current edition of the standby smart access gateway does not support this feature.	The current version of the standby Smart Access Gateway device does not support this feature.
403	InternalError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 6.8 ModifyACLRule

Modifies an Access Control List (ACL) rule.

## Debug

By using [API Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

## Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	No	ModifyACLRule	The name of this action. Value: ModifyACLRule
AcId	String	Yes	acl-xhwhyuo43l0n*****	The ID of the ACL.
AcrId	String	Yes	acr-u98qztgtgvhb*****	The ID of the ACL rule.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL rule belongs.
Description	String	No	test	The description of the ACL rule. It must be 1 to 512 characters in length.
DestCidr	String	No	0.0.0.0/0	The destination address. It is an IPv4 address range in CIDR format. Default value: 0 . 0 . 0 . 0 / 0
DestPortRange	String	No	80/80	The range of the destination port. Valid value: 80 / 80 .
Direction	String	No	in	The direction of the ACL rule. Valid values: in   out
IpProtocol	String	No	tcp	The protocol used by the ACL rule. The value is not case sensitive.
Policy	String	No	accept	The policy used by the ACL rule. Valid values: accept   drop

Parameter	Type	Required ?	Example value	Description
Priority	Integer	No	2	The priority of the ACL rule. Value range: 1 to 100 . Default value: 1
SourceCidr	String	No	0.0.0.0/0	The source address. It is an IPv4 address range in CIDR format. Default value: 0 . 0 . 0 . 0 / 0
SourcePort Range	String	No	80/80	The range of the source port. Valid value: 80 / 80

## Response parameters

Parameter	Type	Example value	Description
AcId	String	acl-xhwhyuo43l0n*****	The ID of the ACL to which the ACL rule belongs.
AcrId	String	acr-u98qztgtgvhb8*****	The ID of the ACL rule to be modified.
Description	String	test	The description of the ACL rule. It must be 1 to 512 characters in length.
DestCidr	String	0.0.0.0/	The destination address. It is an IPv4 address range in the CIDR format. Default value: 0 . 0 . 0 . 0 / 0
DestPortRange	String	80/80	The range of the destination port. Valid value: 80 / 80
Direction	String	in	The direction of the ACL rule. Valid values: in   out

Parameter	Type	Example value	Description
GmtCreate	Long	1553777700000	The time at which the ACL rule was created. It is a long type timestamp . When the priority is the same, the smaller timestamp takes effect.
IpProtocol	String	tcp	The protocol used by the ACL rule. This value is not case sensitive.
Policy	String	drop	The policy used by the ACL rule. Valid values: accept   drop
Priority	Integer	2	The priority of the ACL rule. Value range: 1 to 100 . Default value: 1 .
RequestId	String	9B0F1C25-389E-4E78-9392-E89F8531F87C	The ID of the request.
SourceCidr	String	0.0.0.0/	The source address. It is an IPv4 address range in the CIDR format. Default value: 0 . 0 . 0 . 0 / 0
SourcePort Range	String	80/80	The range of the source port. Valid value: 80 / 80

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? AclId = acl - xhwhyuo43l 0n *****
& AcrId = acr - u98qztgtgv hb *****
& RegionId = cn - hangzhou
&< CommonParameters >
```

### Response example

#### XML format

```
< ModifyACLRule >
  < AcrId > acr - u98qztgtgv hb87nsls </ AcrId >
  < GmtCreate > 1553777700 000 </ GmtCreate >
  < Direction > out </ Direction >
  < Priority > 1 </ Priority >
```

```

< IpProtocol > TCP </ IpProtocol >
< SourceCidr > 192 . 168 . 3 . 0 / 24 </ SourceCidr >
< SourcePort Range > 1 / 65535 </ SourcePort Range >
< AclId > acl - xhwhyuo43l 0n2b832u </ AclId >
< Policy > drop </ Policy >
< RequestId > 9B0F1C25 - 389E - 4E78 - 9392 - E89F8531F8 7C </
RequestId >
< DestPortRa nge > 1 / 65535 </ DestPortRa nge >
< DestCidr > 10 . 0 . 0 . 1 / 32 </ DestCidr >
</ ModifyACLRule >

```

### JSON format

```

{
  " IpProtocol ":" TCP ",
  " SourceCidr ":" 192 . 168 . 3 . 0 / 24 ",
  " SourcePort Range ":" 1 / 65535 ",
  " AclId ":" acl - xhwhyuo43l 0n2b832u ",
  " AcrId ":" acr - u98qztgtgv hb87nsls ",
  " Policy ":" drop ",
  " RequestId ":" 9B0F1C25 - 389E - 4E78 - 9392 - E89F8531F8 7C ",
  " DestPortRa nge ":" 1 / 65535 ",
  " DestCidr ":" 10 . 0 . 0 . 1 / 32 ",
  " GmtCreate ": 1553777700 000 ,
  " Direction ":" out ",
  " Priority ": 1
}

```

### Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidDescription	Description not valid.	The length of the description has exceeded the limit.
403	InvalidParameter	The specified parameter is invalid.	The specified parameter is invalid.
403	FeatureNotSupport	The current edition of the smart access gateway does not support this feature.	The current version of the Smart Access Gateway device does not support this feature.



HTTP status code	Error code	Error message	Description
403	FeatureNotSupportForActiveSmartAG	The current edition of the active smart access gateway does not support this feature.	The current version of the active Smart Access Gateway device does not support this feature.
403	FeatureNotSupportForStandBySmartAG	The current edition of the standby smart access gateway does not support this feature.	The current version of the standby Smart Access Gateway device does not support this feature.
403	NotSupportedProtocol	The specified protocol of the ACL rule is not supported.	The specified protocol of the ACL rule is not supported.
403	InvalidId.ACL	The specified ACL ID is invalid.	The specified ACL ID is invalid.
403	InvalidId.ACR	The specified ACL rule ID is invalid.	The specified ACL rule ID is invalid.
403	InvalidPortRange	The specified port range is invalid.	The specified port range is invalid.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 6.9 CreateACL

Creates an Access Control List (ACL).

### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

## Request parameters

Parameter	Type	Required ?	Example value	Description
Name	String	Yes	test	The name of the ACL instance.  The instance 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. It cannot start with <code>http://</code> or <code>https://</code> .
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL belongs.

## Response parameters

Parameter	Type	Example value	Description
AclId	String	acl-xhwhyuo43l *****	The ID of the ACL.
RequestId	String	EE837E9F-BD50 -4C2B-9E47- 260F9D848480	The ID of the request.

## Examples

## Request example

```
http ( s )://[ Endpoint ]/? Name = test
& RegionId = cn - hangzhou
&< CommonPara meters >
```

## Response example

## • XML format

```
< CreateACL > < AclId > acl - ohlexqptfh ygf4xebg </ AclId >
< RequestId > EE837E9F - BD50 - 4C2B - 9E47 - 260F9D8484 80 </
RequestId >
```

```
</ CreateACL >
```

- JSON format

```
{
  " AclId ":" acl - ohlexqptfh yg *****",
  " RequestId ":" EE837E9F - BD50 - 4C2B - 9E47 - 260F9D8484 80 " }
```

### Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidName	Name not valid.	The name of the ACL is invalid.
403	AclAmountLimit	No more ACL can be created. You can open a ticket to increase the quota of ACLs.	The quota for ACLs has been reached. To increase the quota, open a ticket.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 6.10 DescribeACLAttribute

Queries the configurations of an Access Control List (ACL).

### Debug

By using [OpenAPI Explorer](#), you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

## Request parameters

Parameter	Type	Required ?	Example value	Description
Action	String	No	DescribeACLAttribute	The name of this action. Value: DescribeACLAttribute
ACLId	String	Yes	acl-ohlexqptfhy*****	The ID of the ACL.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the ACL belongs.
Direction	String	No	test	The direction of the ACL.
Order	String	No	1255444444	The order number of the ACL.
PageNumber	Integer	No	2	The number of pages to return. Default value: 1 .
PageSize	Integer	No	10	The number of entries per page. Maximum value: 50 . Default value: 10 .

## Response parameters

Parameter	Type	Example value	Description
Acrs	N/A	N/A	A list of ACL rules.
ACLId	String	acl-xhwhyuo43l*****	The ID of the ACL.
ACLRuleId	String	acr-oicr94jwtpij*****	The ID of the ACL rule.
Description	String	Access rule	The description of the ACL rule. It must be 1 to 512 characters in length.
DestCidr	String	0.0.0.0/0	The destination address. It is an IPv4 address range in the CIDR format. Default value: 0 . 0 . 0 . 0 / 0
DestPortRange	String	12	The range of the destination port. Valid value: 80 / 80 .
Direction	String	in	The direction of the ACL rule. Valid values: in   out

Parameter	Type	Example value	Description
↳GmtCreate	Long	1553077933000	The time at which the ACL rule was created.
↳IpProtocol	String	TCP	The protocol used by the ACL rule. The value is not case sensitive.
↳Policy	String	drop	The policy used by the ACL rule. Default value: drop   accept .
↳Priority	Integer	2	The priority of the ACL rule. Value range: 1 to 100 . Default value: 1 .
↳SourceCidr	String	0.0.0.0/0	The source address. It is an IPv4 address range in the CIDR format. Default value: 0 . 0 . 0 . 0 / 0
↳SourcePort Range	String	30	The range of the source port. Valid value: 80 / 80
PageNumber	Integer	12	The number of pages to return.
PageSize	Integer	5	The number of entries per page.
RequestId	String	5DC67C13-B0E4-45E0-A60C-D32D3B74AB19	The ID of the request.
TotalCount	Integer	12	The number of queried entries.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? AclId = acl - ohlexqptfh y *****
& RegionId = cn - hangzhou
&< CommonPara meters >
```

### Response example

- XML format

```
< DescribeAC LAttribute >
  < PageNumber > 1 </ PageNumber >
  < Acrs >
    < Acr >
      < IpProtocol > TCP </ IpProtocol >
      < SourceCidr > 192 . 168 . 3 . 0 / 24 </ SourceCidr >
      < SourcePort Range > 1 / 65535 </ SourcePort Range >
      < AclId > acl - xhwhyuo43l 0 *****</ AclId >
```

```

    < AcrId > acr - oicr94jwtpt i *****</ AcrId >
    < Policy > accept </ Policy >
    < DestPortRange > 1 / 65535 </ DestPortRange >
    < DestCidr > 10 . 0 . 0 . 1 / 32 </ DestCidr >
    < GmtCreate > 1553077933 000 </ GmtCreate >
    < Direction > out </ Direction >
    < Priority > 1 </ Priority >
  </ Acr >
</ Acrs >
< TotalCount > 1 </ TotalCount >
< PageSize > 10 </ PageSize >
< RequestId > 5DC67C13 - B0E4 - 45E0 - A60C - D32D3B74AB 19 </
RequestId >
</ DescribeACLAttribute >

```

• JSON format

```

{
  " PageNumber ": 1 ,
  " Acrs " : {
    " Acr " : [
      {
        " IpProtocol " : " TCP ",
        " SourceCidr " : " 192 . 168 . 3 . 0 / 24 ",
        " SourcePort Range " : " 1 / 65535 ",
        " AcrId " : " acr - oicr94jwtpt i *****",
        " AclId " : " acl - xhwhyuo43l 0n *****",
        " Policy " : " accept ",
        " DestPortRange " : " 1 / 65535 ",
        " DestCidr " : " 10 . 0 . 0 . 1 / 32 ",
        " GmtCreate " : 1553077933 000 ,
        " Direction " : " out ",
        " Priority " : 1
      }
    ]
  },
  " TotalCount " : 1 ,
  " PageSize " : 10 ,
  " RequestId " : " 5DC67C13 - B0E4 - 45E0 - A60C - D32D3B74AB 19 "
}

```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
403	MissingParameter	The input parameter is missing, please check your input.	The input parameter is missing. Please check your input.
403	InvalidParameter	The specified parameter is invalid.	The input parameter is invalid.

HTTP status code	Error code	Error message	Description
403	InvalidId.ACL	The specified ACL ID is invalid.	The ID of the ACL group is invalid.
403	InternalServerError	An internal server error occurred.	An internal server error has occurred.

[See common error codes](#)

## 7 Smart Access Gateway Software

---


### 7.1 CreateSmartAccessGatewaySoftware

Creates a Smart Access Gateway (SAG) Software.


#### Debug

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

#### Request parameters

Parameter	Type	Required ?	Example value	Description
AutoPay	Boolean	Yes	true	<p>Indicates whether to automatically pay the bill of a Subscription instance.</p> <p>Valid values: true   false</p> <p>Default value: false.</p>
ChargeType	String	Yes	PREPAY	<p>The billing method of the instance. Valid values:</p> <ul style="list-style-type: none"> <li>PayOnDemand: Pay-As-You-Go</li> <li>Prepay: Subscription</li> </ul> <div style="background-color: #f0f0f0; padding: 5px;">  <b>Note:</b>            Currently, only the Subscription billing method is supported.         </div>



Parameter	Type	Required ?	Example value	Description
DataPlan	Long	Yes	5	<p>The specification of the free data plan provided for each account each month. Unit: G.</p> <div style="border: 1px solid gray; background-color: #f0f0f0; padding: 5px;">  <b>Note:</b>            Currently, only free 5G data plans are provided.         </div>
Period	Integer	Yes	12	The validity period of the data plan under each account. Unit: month. If the value exceeds 12, it must be a multiple of 12.
RegionId	String	Yes	cn-shanghai	The region to which the Smart Access Gateway Software belongs.
UserCount	Integer	Yes	5	The number of client accounts the administrator can create . Generally, one account is created for each employee that needs to log on to the client.
Action	String	No	CreateSmartAccessGatewaySoftware	<p>The name of this action.</p> <p>Valid value: CreateSmartAccessGatewaySoftware</p>

### Response parameters

Parameter	Type	Example value	Description
OrderId	String	203782300920296	The order number of the purchase.
RequestId	String	24675405-74DF-4C94-82C6-B749580C498E	The ID of the request.

Parameter	Type	Example value	Description
SmartAGId	String	sag-gnhe6sywta re5*****	The ID of the Smart Access Gateway Software.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? Action = CreateSmartAccessGatewaySoftware
& AutoPay = true
& ChargeType = PREPAY
& DataPlan = 5
& Period = 1
& RegionId = cn - hangzhou
& UserCount = 5
&< CommonParameters >
```

### Response example

#### XML format

```
< CreateSmartAccessGatewaySoftware >
  < SmartAGId > sag - gnhe6sywta re5nt ***</ SmartAGId >
  < OrderId > 2027783368 00296 </ OrderId >
  < RequestId > B35789C0 - A570 - 4C2F - 96D6 - 2B46FBB9D6 4A </
  RequestId >
</ CreateSmartAccessGatewaySoftware >
```

#### JSON format

```
{
  " SmartAGId ":" sag - gnhe6sywta re5nt ***",
  " RequestId ":" B35789C0 - A570 - 4C2F - 96D6 - 2B46FBB9D6 4A ",
  " OrderId ":" 2037823009 20296
}
```

## Error codes

[See common error codes](#)

## 7.2 CreateSmartAccessGatewayClientUser


Creates a user for a Smart Access Gateway (SAG) Software instance.

### Debug

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

## Request parameters

Parameter	Type	Required ?	Example value	Description
Bandwidth	Long	Yes	20	Bandwidth. Unit: Kbps. Maximum value: 2,000 Kbps.
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instance belongs.
SmartAGId	String	Yes	sag- gnhe6sywtare5 *****	The ID of the SAG Software instance.
UserMail	String	Yes	test@example.com	The email address of a common user, which is used by the administrator to send the account information for logging on to the client of the SAG Software.
Action	String	No	CreateSmartAccessGatewayClientUser	The name of this action. Value: CreateSmartAccessGatewayClientUser

Parameter	Type	Required ?	Example value	Description
ClientIp	String	No	10.**. **. **	<ul style="list-style-type: none"> <li>If you enable this option, you must set the IP address of the software client. Then, the current account always accesses the client by using the specified IP address.</li> </ul> <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;">  <b>Note:</b>            The IP address of the software client must be in the private CIDR block.         </div> <ul style="list-style-type: none"> <li>If you disable this option, the system automatically allocates an available IP address from the private CIDR block. The IP address is reallocated each time a re-connection is initiated.</li> </ul>
UserName	String	No	doctest	<p>The username. Usernames associated with the same SAG Software instance must be unique.</p> <p>The username and password are mutually dependent. If one is specified, the other must also be specified.</p>

#### Response parameters

Parameter	Type	Example value	Description
Bandwidth	Integer	2	Bandwidth.

Parameter	Type	Example value	Description
ClientIp	String	10.**.*.**	The IP address of the software client.
RequestId	String	72E82F5E-66E8-4C22-BF1F-5CEB7DC132E7	The ID of the request.
UserMail	String	test@example.com	The email address of a common user.
UserName	String	doc	Usernames. Usernames under the same SAG Software instance must be unique.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? Action = CreateSmartAccessGatewayClient User
& Bandwidth = 20
& RegionId = cn - shanghai
& SmartAGId = sag - gnhe6sywta re5 *****
& UserMail = test @ example . com
&< CommonParameters >
```

### Response example

#### XML format

```
< CreateSmartAccessGatewayClient User >
  < IsStaticIp > 0 </ IsStaticIp >
  < RequestId > 72E82F5E - 66E8 - 4C22 - BF1F - 5CEB7DC132 E7 </
  RequestId >
  < UserMail > dd @ example . com </ UserMail >
  < UserName > dd @ example . com </ UserName >
  < Bandwidth > 2 </ Bandwidth >
</ CreateSmartAccessGatewayClient User >
```

#### JSON format

```
{
  " IsStaticIp ": 0 ,
  " RequestId ":" 72E82F5E - 66E8 - 4C22 - BF1F - 5CEB7DC132 E7 ",
  " UserMail ":" dd @ example . com ",
  " UserName ":" dd @ example . com ",
  " Bandwidth ": 2
```

}

## Error codes

HTTP status code	Error code	Error message	Description
400	ClientUser.BandwidthInvalid	The specified Bandwidth is invalid.	The specified bandwidth is invalid.
400	ClientUser.EmailEmpty	You must specify UserEmail.	The user email cannot be empty.
400	ClientUser.EmailInvalid	The format of the specified UserEmail is invalid.	The user email is invalid.
400	ClientUser.InvalidClientIp	The specified ClientIp is invalid.	The specified user IP address is invalid.
400	ClientUser.IpEmpty	You must specify ClientIp.	You must specify a static IP address.
400	ClientUser.IpInvalid	The specified ClientIp is invalid.	The specified static IP address is invalid.
400	ClientUser.NameEmpty	You must specify UserName.	The username cannot be empty.
400	ClientUser.NameInvalid	The specified UserName is invalid.	The specified username is invalid.
400	ClientUser.UserExist	The specified user already exists.	The specified username already exists.
400	ClientUser.UserOverLimit	The maximum number of users is exceeded.	The user quota has been exceeded.
400	SAG.CidrEmpty	You must specify the CIDR blocks of SAG.	The specified SAG CIDR block is empty.

[See common error codes](#)

## 7.3 DescribeSmartAccessGatewayClientUsers

Queries the list of users of a Smart Access Gateway (SAG) Software instance.

## Debug

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

### Request parameters

Parameter	Type	Required ?	Example value	Description
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instance belongs.
SmartAGId	String	Yes	sag-jfkskjff *****	The ID of the SAG Software instance.
Action	String	No	DescribeSmartAccessGatewayClientUsers	The name of this action. Value:DescribeSmartAccessGatewayClientUsers
PageNo	Integer	No	1	The number of pages to return. Start value: 1 Default value:1
PageSize	Integer	No	21	The number of entries per page. Maximum value: 100. Default value: 50
UserName	String	No	doctest	The username. Usernames associated with the same SAG Software instance must be unique.  The username and password are mutually dependent. If one is specified, the other must also be specified.

## Response parameters

Parameter	Type	Example value	Description
PageNo	Integer	2	The number of pages to return. Start value: 1 Default value: 1
PageSize	Integer	12	The number of entries per page. Maximum value: 100 Default value: 50
RequestId	String	62F4CF10-F909-487E-8E95-BC35457C5F50	The ID of the request.
TotalCount	Integer	2	The number of users.
Users			The list of client users of a SAG Software instance.
└Bandwidth	Integer	2	The bandwidth.
└ClientIp	String	10.**. **. **	The IP address of the software client.
└UserMail	String	test@example.com	The email address of the common user.
└UserName	String	doctest	The name of the user.

## Examples

## Request example

```

http ( s )://[ Endpoint ]/? Action = DescribeSmartAccessGatewayClientUsers
& RegionId = cn - shanghai
& SmartAGId = sag - jfkskjfjf *****
&< CommonParameters >

```

## Response example



**XML format**

```
< DescribeSmartAccessGatewayClientUsers >
  < Users >
    < User >
      < SmartAccessGatewayId > sag - va03wf *** idaj00g6x </
SmartAccessGatewayId >
      < IsStaticIp > 0 </ IsStaticIp >
      < UserMail > dd @ example . com </ UserMail >
      < UserName > dd @ example . com </ UserName >
      < Bandwidth > 2 </ Bandwidth >
    </ User >
  </ Users >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 62F4CF10 - F909 - 487E - 8E95 - BC35457C5F 50 </
RequestId >
  < Page > 1 </ Page >
</ DescribeSmartAccessGatewayClientUsers >
```

**JSON format**

```
{
  "Users" : {
    "User" : [
      {
        "SmartAccessGatewayId" : " sag - va03 **** idaj00g6x ",
        "IsStaticIp" : 0 ,
        "UserMail" : " dd @ example . com ",
        "UserName" : " dd @ example . com ",
        "Bandwidth" : 2
      }
    ]
  },
  "TotalCount" : 1 ,
  "PageSize" : 10 ,
  "PageNo" : 1 ,
  "RequestId" : " 62F4CF10 - F909 - 487E - 8E95 - BC35457C5F 50 "
}
```

**Error codes**

HTTP status code	Error code	Error message	Description
400	SAG.InstanceId Empty	You must specify the SAG instance ID.	The ID of the SAG instance is empty.
400	SAG.InstanceNotFound	The specified SAG instance does not exist.	The specified SAG instance does not exist.

[See common error codes](#)

## 7.4 ResetSmartAccessGatewayClientUserPassword

Resets the password of a Smart Access Gateway (SAG) Software client.

### Debug

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

### Request parameters

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software client belongs.
SmartAGId	String	Yes	sag-jdfnf *****	The ID of the SAG Software instance.
UserName	String	Yes	doctest	The username. The usernames associated with the same software instance must be unique.  The username and password are mutually dependent. If one is specified, the other must also be specified.
Action	String	No	ResetSmartAccessGatewayClientUserPassword	The name of this action.  Value: ResetSmartAccessGatewayClientUserPassword

### Response parameters

Parameter	Type	Example value	Description
RequestId	String	BE1F7E80-4558-4021-B6D2-B94DA8AAAF81	The ID of the request.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? Action = ResetSmart AccessGate
wayClientU serPasswor d
& RegionId = cn - shanghai
& SmartAGId = sag - jdfnf *****
& UserName = doctest
&< CommonPara meters >
```

### Response example

#### XML format

```
< ResetSmart AccessGate wayClientU serPasswor d >
  < RequestId > BE1F7E80 - 4558 - 4021 - B6D2 - B94DA8AAAF 81 </
  RequestId >
</ ResetSmart AccessGate wayClientU serPasswor d >
```

#### JSON format

```
{
  " RequestId ":" BE1F7E80 - 4558 - 4021 - B6D2 - B94DA8AAAF 81 "
}
```

## Error codes

HTTP status code	Error code	Error message	Description
400	ClientUser.NameEmpty	You must specify UserName.	The username cannot be empty.
400	ClientUser.NameInvalid	The specified UserName is invalid.	The specified username is invalid.
400	SAG.InstanceIdEmpty	You must specify the SAG instance ID.	The ID of the SAG instance is empty.
400	SAG.InstanceNotFound	The specified SAG instance does not exist.	The specified SAG instance does not exist.

[See common error codes](#)

## 7.5 DeleteSmartAccessGatewayClientUser

Deletes a client that is using the target Smart Access Gateway (SAG) Software.

## Debug

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

### Request parameters

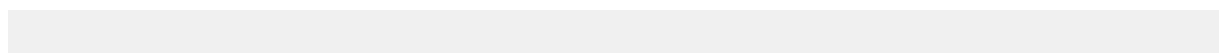
Parameter	Type	Required ?	Example value	Description
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instance belongs.
SmartAGId	String	Yes	sag-hdjffn *****	The ID of the SAG Software instance.
Action	String	No	DeleteSmartAccessGatewayClientUser	The name of this action. Value: DeleteSmartAccessGatewayClientUser
UserName	String	No	doctest	The username. Usernames associated with the same SAG Software instance must be unique.  The username and password are mutually dependent. If one is specified, the other must also be specified.

### Response parameters

Parameter	Type	Example value	Description
RequestId	String	09AD82DC-FE26-4B66-B526-2FA6BE82A4D3	The ID of the request.

## Examples

### Request example



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

## Response example

### XML format

```
< DeleteSmartAccessGatewayClientUser >
  < RequestId > 09AD82DC - FE26 - 4B66 - B526 - 2FA6BE82A4 D3 </
  RequestId >
</ DeleteSmartAccessGatewayClientUser >
```

### JSON format

```
{
  "RequestId ":" 09AD82DC - FE26 - 4B66 - B526 - 2FA6BE82A4 D3 "
}
```

## Error codes

HTTP status code	Error code	Error message	Description
400	SAG.InstanceIdEmpty	You must specify the SAG instance ID.	The ID of the SAG instance is empty.
400	SAG.InstanceNotFound	The specified SAG instance does not exist.	The specified SAG instance does not exist.
400	ClientUserNameEmpty	You must specify UserName.	The username cannot be empty.
400	ClientUserNameInvalid	The specified UserName is invalid.	The specified username is invalid.

[See common error codes](#)

## 7.6 ModifySmartAccessGatewayClientUser

Modifies the bandwidth for a Smart Access Gateway (SAG) Software user.

### 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 bandwidth. Unit: Kbps. Maximum value: 2,000 Kbps.
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instance belongs.
SmartAGId	String	Yes	sag-kdhej *****8	The ID of the SAG Software instance.
UserName	String	Yes	doctest	The username. Usernames associated with the same SAG Software instance must be unique.  The username and password are mutually dependent. If one is specified, the other must also be specified.
Action	String	No	ModifySmartAccessGatewayClientUser	The name of this action.  Value: ModifySmartAccessGatewayClientUser

## Response parameters

Parameter	Type	Example value	Description
Bandwidth	Integer	2	Bandwidth.
ClientIp	String	10.**. **. **	The IP address of the software client.

Parameter	Type	Example value	Description
RequestId	String	5F0078B5-8AAD-4B53-8351-4C91B8EA528A	The ID of the request.
UserMail	String	test@example.com	The email address of a common user.
UserName	String	doctes	The name of the user.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? Action = ModifySmartAccessGatewayClient User
& Bandwidth = 2
& RegionId = cn - shanghai
& SmartAGId = sag - kdhej ***** 8
& UserName = doctest
&< CommonParameters >
```

### Response example

#### XML format

```
< ModifySmartAccessGatewayClient User >
  < RequestId > 5F0078B5 - 8AAD - 4B53 - 8351 - 4C91B8EA52 8A </
  RequestId >
  < UserMail > dd @ example . com </ UserMail >
  < UserName > dd @ example . com </ UserName >
  < Bandwidth > 1 </ Bandwidth >
</ ModifySmartAccessGatewayClient User >
```

#### JSON format

```
{
  " RequestId ":" 5F0078B5 - 8AAD - 4B53 - 8351 - 4C91B8EA52 8A ",
  " UserMail ":" dd @ example . com ",
  " UserName ":" dd @ example . com ",
  " Bandwidth ": 1
}
```

## Error codes

HTTP status code	Error code	Error message	Description
400	ClientUser.BandwidthInvalid	The specified Bandwidth is invalid.	The specified bandwidth is invalid.
400	ClientUser.NameEmpty	You must specify UserName.	The username cannot be empty.
400	ClientUser.NameInvalid	The specified UserName is invalid.	The specified username is invalid.
400	SAG.InstanceIdEmpty	You must specify the SAG instance ID.	The ID of the specified SAG instance is empty.
400	SAG.InstanceNotFound	The specified SAG instance does not exist.	The specified SAG instance does not exist.

[See common error codes](#)

## 7.7 DescribeUserOnlineClientStatistics

Queries the user statistics of a Smart Access Gateway (SAG) Software instance.

### Debug

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

### Request parameters

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instance belongs.
UserNames	RepeatList	Yes	12	The list of users. Maximum value: 50.



Parameter	Type	Required ?	Example value	Description
Action	String	No	DescribeUserOnlineClientStatistics	The name of this action. Value: DescribeUserOnlineClientStatistics
SmartAGId	String	No	sag-sfjg*****	The ID of the SAG Software instance.

### Response parameters

Parameter	Type	Example value	Description
RequestId	String	14846A6A-2192-4F6A-B272-B8BD68EBC89B	The ID of the request.
UserStatistics			The list of online users.
└ OnlineCount	String	2	The number of online connections.
└└ UserName	String	doctest	The name of the user.

### Examples

#### Request example

```
http ( s ) : // [ Endpoint ] / ? Action = DescribeUserOnlineClientStatistics
& RegionId = cn - shanghai
& UserNames . 1 = 12
& < CommonParameters >
```

#### Response example

##### XML format

```
< DescribeUserOnlineClientStatistics >
  < RequestId > 14846A6A - 2192 - 4F6A - B272 - B8BD68EBC8 9B </
  RequestId >
  < UserStatistics >
    < Statistics >
      < UserName > doctest </ UserName >
      < OnlineCount > 0 </ OnlineCount >
    </ Statistics >
```

```
</ UserStatistics >
</ DescribeUserOnlineClientStatistics >
```

### JSON format

```
{
  "RequestId ":" 14846A6A - 2192 - 4F6A - B272 - B8BD68EBC8 9B ",
  " UserStatistics ":{
    " statistics " : {
      {
        " UserName ":" doctest ",
        " OnlineCount ": 0
      }
    }
  }
}
```

### Error codes

HTTP status code	Error code	Error message	Description
400	ClientUser.NameEmpty	You must specify UserName.	The username cannot be empty.
400	ClientUser.NameInvalid	The specified UserName is invalid.	The specified username is invalid.
400	SAG.InstanceIdEmpty	You must specify the SAG instance ID.	The ID of the SAG instance is empty.
400	SAG.InstanceNotFound	The specified SAG instance does not exist.	The specified SAG instance does not exist.

[See common error codes](#)

## 7.8 KickOutClients

Disables online connections based on the ID of the Smart Access Gateway (SAG) Software instance and username.

### Debug

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

## Request parameters

Parameter	Type	Required ?	Example value	Description
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instance belongs.
SmartAGId	String	Yes	sag-ehjfb *****	The ID of the SAG Software instance.
Username	String	Yes	doctest	The username. Usernames associated with the same SAG Software instance must be unique.  The username and password are mutually dependent. If one is specified, the other must also be specified.
Action	String	No	KickOutClients	The name of this action.  Value: KickOutClients

## Response parameters

Parameter	Type	Example value	Description
RequestId	String	76FD7E08-6AA1-4B1B-99FB-8B3CA6C99A8E	The ID of the request.

## Examples

## Request example

```
http ( s ) : // [ Endpoint ] / ? Action = KickOutClients
& RegionId = cn - shanghai
& SmartAGId = sag - ehjfb *****
& Username = doctest
```

```
&< CommonParameters >
```

### Response example

#### XML format

```
< KickOutClients >
  < RequestId > 7108A98F - C47D - 45F7 - A4D8 - C2E3022735 DA </
  RequestId >
</ KickOutClients >
```

#### JSON format

```
{
  "RequestId ":" 7108A98F - C47D - 45F7 - A4D8 - C2E3022735 DA "
}
```

### Error codes

HTTP status code	Error code	Error message	Description
400	ClientUser.NameEmpty	You must specify UserName.	The username cannot be empty.
400	SAG.InstanceNotFound	The specified DB instance does not exist.	The specified SAG instance does not exist.

[See common error codes](#)

## 7.9 DescribeUserOnlineClients

Queries the list of online connections of a user based on the username and Smart Access Gateway (SAG) Software instance ID.

### Debug

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

## Request parameters

Parameter	Type	Required ?	Example value	Description
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instance belongs.
SmartAGId	String	Yes	sag-wfjgn *****	The ID of the SAG Software instance.
UserName	String	Yes	doctest	The username. Usernames associated with the same SAG Software instance must be unique.  The username and password are mutually dependent. If one is specified, the other must also be specified.
Action	String	No	DescribeUserOnlineClients	The name of this action.  Value: DescribeUserOnlineClients

## Response parameters

Parameter	Type	Example value	Description
RequestId	String	7108A98F-C47D-45F7-A4D8-C2E3022735DA	The ID of the request.
Users			The user information.
└ClientIp	String	10.**. **. **	The IP address of the Alibaba Cloud Software client.
└OnlineTime	String	1559125519	The time of getting online.

## Examples

### Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeUs erOnlineCl ients
& RegionId = cn - shanghai
& SmartAGId = sag - wfjgn *****
& UserName = doctest
&< CommonPara meters >
```

### Response example

#### XML format

```
< DescribeUs erOnlineCl ients >
  < Users >
    < User >
      < OnlineTime > 1559125519 </ OnlineTime >
      < ClientIp > 192 . 168 . 0 . 2 </ ClientIp >
    </ User >
  </ Users >
  < RequestId > 92B22889 - 5451 - 4A1D - 9432 - 66ED5AB3DD 04 </
  RequestId >
</ DescribeUs erOnlineCl ients >
```

#### JSON format

```
{
  " Users " : {
    " User " : [
      {
        " OnlineTime ":" 1559125519 ",
        " ClientIp ":" 192 . 168 . 0 . 2 "
      }
    ]
  },
  " RequestId ":" 92B22889 - 5451 - 4A1D - 9432 - 66ED5AB3DD 04 "
}
```

## Error codes

HTTP status code	Error code	Error message	Description
400	ClientUser.NameEmpty	You must specify UserName.	The username cannot be empty.
400	ClientUser.NameInvalid	The specified UserName is invalid.	The specified username is invalid.
400	SAG.InstanceIdEmpty	You must specify the SAG instance ID.	The ID of the SAG instance is empty.

HTTP status code	Error code	Error message	Description
400	SAG.InstanceNotFound	The specified SAG instance does not exist.	The Specified SAG instance does not exist.

[See common error codes](#)

## 7.10 DescribeSagOnlineClientStatistics

Queries the online connection data of current users of Smart Access Gateway Software (SAG) instances.

### Debug

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

### Request parameters

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-shanghai	The ID of the region to which the SAG Software instances belongs.
Action	String	No	DescribeSagOnlineClientStatistics	The name of this action. Value: DescribeSagOnlineClientStatistics
SmartAGIds . N	RepeatList	No	12	The list of SAG Software instance IDs. Maximum value: 50.

## Response parameters

Parameter	Type	Example value	Description
RequestId	String	9EC839B6-0EA5-4F19-A4B7-A9E465D057AE	The ID of the request.
SagStatistics			The online connection data.
└ OnlineCount	String	2	The number of online clients connected to the SAG Software instance currently.
└ SmartAGId	String	sag-va03wf4l4idaj*****	The ID of the SAG Software instance.

## Examples

## Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeSagOnlineClientStatistics
& RegionId = cn - shanghai
&< CommonParameters >
```

## Response example

## XML format

```
< DescribeSagOnlineClientStatistics >
  < RequestId > 9EC839B6 - 0EA5 - 4F19 - A4B7 - A9E465D057 AE </
  RequestId >
  < SagStatistics >
    < Statistics >
      < SmartAGId > sag - va03wf4l4idaj0 ***</ SmartAGId >
      < OnlineCount > 0 </ OnlineCount >
    </ Statistics >
  </ SagStatistics >
</ DescribeSagOnlineClientStatistics >
```

## JSON format

```
{
  "SagStatistics":{
    "statistics":{
      {
        "SmartAGId":"sag - va03wf4l4idaj00 ***",
        "OnlineCount": 10 ,
      }
    }
  }
}
```



```

    },
    "RequestId ":" 9EC839B6 - 0EA5 - 4F19 - A4B7 - A9E465D057 AE "
  }

```

## Error codes

See [common error codes](#)

## 7.11 DescribeUserFlowStatistics

Queries the traffic statistics of users under a Smart Access Gateway (SAG) Software instance.

### Debug

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

### Request parameters

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the SAG Software instance belongs.
SmartAGId	String	Yes	sag-mfkg*****	The ID of the SAG Software instance.
UserNames	RepeatList	Yes	12	The list of usernames. Maximum value: 50.
Action	String	No	DescribeUserFlowStatistics	The name of this action. Value: DescribeUserOnlineClients

Parameter	Type	Required ?	Example value	Description
Statistics Date	String	No	201905	The month in which the data is collected. Format: yyyyMM.  If you do not specify this parameter, the data of the current month is collected by default.

### Response parameters

Parameter	Type	Example value	Description
RequestId	String	9552AD68-18EA-4074-B27D-40040FBA9683	The ID of the request.
SagStatistics			The traffic statistics.
└TotalBytes	String	12	The traffic amount. Unit: Bytes.
└UserName	String	doctest	The name of the user.

### Examples

#### Request example

```
http ( s )://[ Endpoint ]/? Action = DescribeUserFlowStatistics
& RegionId = cn - hangzhou
& SmartAGId = sag - mfgk *****
& UserNames . 1 = 12
&< CommonParameters >
```

#### Response example

##### XML format

```
< DescribeUserFlowStatistics >
  < SagStatistics >
    < Statistics >
      < UserName > zhanlg </ UserName >
      < TotalBytes > 555352 </ TotalBytes >
    </ Statistics >
  </ SagStatistics >
```

```
< RequestId > ADD09081 - 31A9 - 4E7D - B15C - 135C6EBEEB 63 </
RequestId >
</ DescribeUs erFlowStat istics >
```

### JSON format

```
{
  " RequestId ":" ADD09081 - 31A9 - 4E7D - B15C - 135C6EBEEB 63 ",
  " SagStatist ics ":{
    " Statistics ":[
      {
        " UserName ":" zhanlg ",
        " TotalBytes ": 555352
      }
    ]
  }
}
```

### Error codes

HTTP status code	Error code	Error message	Description
400	SAG.InstanceId Empty	You must specify the SAG instance ID.	The ID of the SAG instance is empty.
400	SAG.InstanceNo Found	The specified SAG instance does not exist.	The specified SAG instance does not exist.

[See common error codes](#)