

Alibaba Cloud Apsara Stack Enterprise

Developer Guide - Middleware and Enterprise Applications

Version: 1901

Issue: 20190528

Legal disclaimer

Alibaba Cloud reminds you to carefully read and fully understand the terms and conditions of this legal disclaimer before you read or use this document. If you have read or used this document, it shall be deemed as your total acceptance of this legal disclaimer.

1. You shall download and obtain this document from the Alibaba Cloud website or other Alibaba Cloud-authorized channels, and use this document for your own legal business activities only. The content of this document is considered confidential information of Alibaba Cloud. You shall strictly abide by the confidentiality obligations. No part of this document shall be disclosed or provided to any third party for use without the prior written consent of Alibaba Cloud.
2. No part of this document shall be excerpted, translated, reproduced, transmitted, or disseminated by any organization, company, or individual in any form or by any means without the prior written consent of Alibaba Cloud.
3. The content of this document may be changed due to product version upgrades, adjustments, or other reasons. Alibaba Cloud reserves the right to modify the content of this document without notice and the updated versions of this document will be occasionally released through Alibaba Cloud-authorized channels. You shall pay attention to the version changes of this document as they occur and download and obtain the most up-to-date version of this document from Alibaba Cloud-authorized channels.
4. This document serves only as a reference guide for your use of Alibaba Cloud products and services. Alibaba Cloud provides the document in the context that Alibaba Cloud products and services are provided on an "as is", "with all faults" and "as available" basis. Alibaba Cloud makes every effort to provide relevant operational guidance based on existing technologies. However, Alibaba Cloud hereby makes a clear statement that it in no way guarantees the accuracy, integrity, applicability, and reliability of the content of this document, either explicitly or implicitly. Alibaba Cloud shall not bear any liability for any errors or financial losses incurred by any organizations, companies, or individuals arising from their download, use, or trust in this document. Alibaba Cloud shall not, under any circumstances, bear responsibility for any indirect, consequential, exemplary, incidental, special, or punitive damages, including lost profits arising from the use or trust in this document, even if Alibaba Cloud has been notified of the possibility of such a loss.
5. By law, all the contents in Alibaba Cloud documents, including but not limited to pictures, architecture design, page layout, and text description, are intellectual property of Alibaba Cloud and/or its affiliates. This intellectual property includes, but is not limited to, trademark rights, patent rights, copyrights, and trade secrets. No part of this document shall be used, modified,

reproduced, publicly transmitted, changed, disseminated, distributed, or published without the prior written consent of Alibaba Cloud and/or its affiliates. The names owned by Alibaba Cloud shall not be used, published, or reproduced for marketing, advertising, promotion, or other purposes without the prior written consent of Alibaba Cloud. The names owned by Alibaba Cloud include, but are not limited to, "Alibaba Cloud", "Aliyun", "HiChina", and other brands of Alibaba Cloud and/or its affiliates, which appear separately or in combination, as well as the auxiliary signs and patterns of the preceding brands, or anything similar to the company names, trade names, trademarks, product or service names, domain names, patterns, logos, marks, signs, or special descriptions that third parties identify as Alibaba Cloud and/or its affiliates.

- 6.** Please contact Alibaba Cloud directly if you discover any errors in this document.

Document conventions

Style	Description	Example
	A danger notice 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.
	A warning notice 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 restart an instance.
	A caution notice indicates warning information, supplementary instructions , and other content that the user must understand.	 Note: If the weight is set to 0, the server no longer receives new requests.
	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings > Network > Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	Courier font is used for commands.	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value , where only one item can be selected.	<code>switch {active stand}</code>

Contents

Legal disclaimer.....	I
Document conventions.....	I
1 API Gateway.....	1
1.1 Overview.....	1
1.2 List of operations by function.....	3
1.3 Make API requests.....	6
1.4 Sign signatures.....	8
1.5 API group operations.....	10
1.5.1 CreateApiGroup.....	10
1.5.2 ModifyApiGroup.....	12
1.5.3 DeleteApiGroup.....	13
1.5.4 CreateApiStageVariable.....	15
1.5.5 DeleteApiStageVariable.....	16
1.5.6 DescribeApiGroup.....	17
1.5.7 DescribeApiGroups.....	20
1.5.8 DescribeApiStage.....	22
1.6 Domain name operations.....	24
1.6.1 SetDomain.....	24
1.6.2 SetDomainCertificate.....	26
1.6.3 DescribeDomain.....	27
1.6.4 DeleteDomain.....	29
1.6.5 DeleteDomainCertificate.....	31
1.7 API management operations.....	32
1.7.1 CreateApi.....	32
1.7.2 ModifyApi.....	35
1.7.3 DeployApi.....	39
1.7.4 SwitchApi.....	40
1.7.5 AbolishApi.....	41
1.7.6 DeleteApi.....	43
1.7.7 DescribeApi.....	44
1.7.8 DescribeApiDoc.....	52
1.7.9 DescribeApis.....	56
1.7.10 DescribeApiHistory.....	58
1.7.11 DescribeApiHistories.....	65
1.7.12 DescribeDeployedApi.....	68
1.7.13 DescribeDeployedApis.....	74
1.7.14 DescribeApiErrorData.....	77
1.7.15 DescribeApiLatencyData.....	79
1.7.16 DescribeApiQpsData.....	81
1.7.17 DescribeApiTrafficData.....	83
1.8 Throttling operations.....	85

1.8.1 CreateTrafficControl.....	85
1.8.2 ModifyTrafficControl.....	87
1.8.3 DeleteTrafficControl.....	88
1.8.4 SetTrafficControlApis.....	89
1.8.5 RemoveTrafficControlApis.....	90
1.8.6 DescribeApisByTrafficControl.....	92
1.8.7 DescribeTrafficControls.....	94
1.8.8 DescribeTrafficControlsByApi.....	97
1.9 App management operations.....	98
1.9.1 CreateApp.....	98
1.9.2 ModifyApp.....	99
1.9.3 ResetAppSecret.....	101
1.9.4 DescribeAppAttributes.....	102
1.9.5 DescribeAppSecurity.....	103
1.9.6 DeleteApp.....	105
1.10 Authorization operations.....	106
1.10.1 DescribeApps.....	106
1.10.2 DescribeAuthorizedApis.....	108
1.10.3 DescribeAuthorizedApps.....	110
1.10.4 SetApisAuthorities.....	112
1.10.5 SetAppsAuthorities.....	114
1.10.6 RemoveApisAuthorities.....	115
1.10.7 RemoveAppsAuthorities.....	116
1.11 Other operations.....	118
1.11.1 DescribeRegions.....	118
1.11.2 DescribeSystemParameters.....	119
1.12 Data types.....	122
1.12.1 ApiGroupAttribute.....	122
1.12.2 ApiHisItem.....	123
1.12.3 ApiInfo.....	123
1.12.4 ApiSummary.....	124
1.12.5 ApiTrafficControllItem.....	125
1.12.6 AppAttribute.....	125
1.12.7 ApplItem.....	126
1.12.8 AuthorizedApi.....	126
1.12.9 AuthorizedApp.....	127
1.12.10 ConstantParameter.....	128
1.12.11 CustomDomain.....	128
1.12.12 DeployedApiItem.....	129
1.12.13 DeployedInfo.....	130
1.12.14 DomainItem.....	130
1.12.15 ErrorCodeSample.....	131
1.12.16 MonitorItem.....	131
1.12.17 Region.....	131

1.12.18 RequestConfig.....	132
1.12.19 RequestParameter.....	133
1.12.20 ServiceConfig.....	134
1.12.21 ServiceParameter.....	135
1.12.22 ServiceParameterMap.....	135
1.12.23 Special.....	135
1.12.24 SpecialPolicy.....	136
1.12.25 StageInfo.....	136
1.12.26 SystemParameter.....	137
1.12.27 SystemParamItem.....	137
1.12.28 TrafficControl.....	138
1.12.29 TrafficControllItem.....	138

1 API Gateway

1.1 Overview

Thank you for choosing Alibaba Cloud API Gateway. You can use the APIs described in this document to perform relevant operations on API Gateway.

Terms

Term	Definition	Description
Region	Region	The region that you select on API Gateway to deploy an API . We recommend that you select the region to which your backend services belong.
API	Application Programming Interface	The API that you enter on API Gateway to deploy and provide external services or data.
Group	API group	A group of APIs. - API providers must create an API group before providing API services. - Each API group has a second-level domain name and two runtime environments. - APIs in the same group can be accessed using the bound independent domain name.
SubDomain	Second-level domain name	Each API group has a second-level domain name. An independent domain name must be resolved to the second-level domain name, which can be accessed directly to call the APIs in the test environment.
CustomDomain	Custom domain name	An independent domain name that you bind to an API group. If the APIs in the group support HTTPS, you need to upload the SSL certificate for the domain name.
Stage	Runtime environment	The runtime environment of an API group. Each API group you create has two runtime environments: test and release. Only APIs that have been published to an environment can be called. When you access the second-level domain of an API group, APIs in the test environment are called automatically.
Signature	Backend signature key	An authentication key issued by an API provider to API Gateway. After being bound to APIs, the backend signature key goes into effect immediately. When receiving requests from the APIs, API Gateway requests backend services with

Term	Definition	Description
		the signature information attached. The backend services use the signature information to authenticate API Gateway.
TrafficControl	Throttling policy	The throttling policy that you apply to an API. After being bound to APIs, the throttling policy goes into effect immediately. The policy manages API calls from three dimensions: API, application, and user. You can configure special throttling policies under a throttling policy. For example, when an application or user calls an API that is bound with special throttling policies, access to the API is throttled based on the special values of the policy.
Special	Special throttling policy	Special throttling policies are configured under a throttling policy. They are used to throttle access to a bound API for specified users and applications.
APP	Application	The application that you create as an identity to call an API provided by another user. When API Gateway receives a request, it performs signature verification using the AppKey and AppSecret.

Business and resource limits

API Gateway imposes limits on the numbers of API groups and APIs that you can create, as well as the APIs that you can call through API Gateway.

Limits for API providers

Item	Description
Limits on the number of created API groups	Each account can have a maximum of 50 API groups.
Limits on the number of created APIs	A maximum of 200 APIs can be created in each API group. That is, a maximum of 10,000 (50 × 200) APIs can be created for each account.
Limits on the number of independent domain names bound to an API group	A maximum of five independent domain names can be bound to an API group.
TPS limit on APIs	The TPS limit on each API group is 500. You can increase the limit based on your business needs.

Limits for API callers

- A maximum of 10 applications can be created under each account. Each application name must be unique.
- The maximum QPS of a single IP address cannot exceed 100.
- You have the right to grant or revoke the access permissions on purchased APIs and applications. You do not have the right to revoke the access permissions on the APIs authorized by a service provider to your applications.
- Your requests must contain signature information.

1.2 List of operations by function

API group operations

Operation	Description
<i>CreateApiGroup</i>	Creates an API group.
<i>ModifyApiGroup</i>	Modifies an API group.
<i>DeleteApiGroup</i>	Deletes an API group.
<i>CreateApiStageVariable</i>	Creates an environment variable.
<i>DeleteApiStageVariable</i>	Deletes an environment variable.
<i>DescribeApiStage</i>	Queries details about a specified environment.
<i>DescribeApiGroup</i>	Queries details about a specified API group.
<i>DescribeApiGroups</i>	Queries API groups.

Domain name operations

Operation	Description
<i>SetDomain</i>	Binds the custom domain name.
<i>SetDomainCertificate</i>	Uploads an SSL certificate for a specified custom domain name.
<i>DescribeDomain</i>	Queries details about a specified custom domain name.
<i>DeleteDomain</i>	Deletes a specified custom domain name.
<i>DeleteDomainCertificate</i>	Deletes the certificate of a specified domain name.

API management operations

Operation	Description
<i>CreateApi</i>	Creates an API.
<i>ModifyApi</i>	Modifies an API.
<i>DeployApi</i>	Publishes an API to a specified environment.
<i>SwitchApi</i>	Switches the runtime definition of an API in a specified environment.
<i>AbolishApi</i>	Unpublishes an API in a specified environment.
<i>DeleteApi</i>	Deletes the definition of a specified API.
<i>DescribeApi</i>	Queries details about a specified API definition.
<i>DescribeApis</i>	Queries the APIs belonging to a certain definition.
<i>DescribeApiDoc</i>	Queries the descriptive documentation of a specified API.
<i>DescribeDeployedApi</i>	Queries the runtime definition of an API in a specified environment.
<i>DescribeDeployedApis</i>	Queries the APIs running in a specified environment.
<i>DescribeApiHistory</i>	Queries the definition of an API in a specified earlier version.
<i>DescribeApiHistories</i>	Queries the earlier versions of a specified API.
<i>DescribeApiErrorData</i>	Queries the error monitoring data of a specified API.
<i>DescribeApiLatencyData</i>	Queries the latency monitoring data of a specified API.
<i>DescribeApiQpsData</i>	Queries the QPS monitoring data of a specified API.
<i>DescribeApiTrafficData</i>	Queries the traffic monitoring data of a specified API.

API throttling operations

Operation	Description
<i>CreateTrafficControl</i>	Creates a throttling policy.

Operation	Description
<i>ModifyTrafficControl</i>	Modifies a specified throttling policy.
<i>DeleteTrafficControl</i>	Deletes a specified throttling policy.
<i>SetTrafficControlApis</i>	Binds a throttling policy to APIs.
<i>RemoveTrafficControlApis</i>	Unbinds a throttling policy from APIs.
<i>DescribeTrafficControls</i>	Queries throttling policies and their details.
<i>DescribeApisByTrafficControl</i>	Queries the APIs to which a specified throttling policy is bound.
<i>DescribeTrafficControlsByApi</i>	Queries the throttling policies bound to a specified API.

Application operations

Operation	Description
<i>CreateApp</i>	Creates an application.
<i>ModifyApp</i>	Modifies an application.
<i>ResetAppSecret</i>	Resets a specified application key.
<i>DescribeAppAttributes</i>	Queries applications and their basic information.
<i>DescribeAppSecurity</i>	Queries information about a specified application key.
<i>DeleteApp</i>	Deletes an application.

Authorization operations

Operation	Description
<i>DescribeApps</i>	Queries the applications to which you are able to grant permissions.
<i>DescribeAuthorizedApis</i>	Queries the APIs that a specified application has been authorized to call.
<i>DescribeAuthorizedApps</i>	Queries the applications that currently have access to a specified API.
<i>SetApisAuthorities</i>	Grants access permissions on multiple APIs to a specified application.

Operation	Description
SetAppsAuthorities	Grants access permissions on a specified API to multiple applications.
RemoveApisAuthorities	Revokes the access permissions on multiple APIs from a specified application.
RemoveAppsAuthorities	Revokes the access permissions on a specified API from multiple applications.

Other operations

Operation	Description
DescribeRegions	Queries supported regions.
DescribeSystemParameters	Queries system parameters.

1.3 Make API requests

You can call an operation by sending an HTTP GET request to the API Gateway endpoint and specifying the relevant request parameters in the request based on the operation descriptions.

The system returns the processing result of the request.

Request structure

Endpoints

The endpoint for the API Gateway services is `apigateway.[RegionId].aliyuncs.com`.

Protocols

You can send requests over HTTP or HTTPS. For security considerations, we recommend that you use HTTPS.

Methods

You can call an API operation by sending an HTTP GET request. If you use this method, the request parameters must be included in the request URL.

Parameters

For each request, you must specify the Action parameter (such as `CreateApi`), common request parameters, and API-specific parameters.

Encoding

Requests and responses are encoded using UTF-8.

Common parameters

Common request parameters

Common request parameters must be included in the request of each API.

Name	Type	Required	Description
Format	String	No	The type of the returned value. The returned value can be displayed in JSON or XML format. Default value: XML.
Version	String	Yes	The API version, in the format of YYYY-MM-DD. The current version is 2016-07-14.
AccessKeyId	String	Yes	The AccessKey ID that Alibaba Cloud issues to a user for service access.
Signature	String	Yes	The signature result string. For more information about signature calculation methods, see Sign signatures.
SignatureMethod	String	Yes	The signature method. HMAC-SHA1 is supported.
TimeStamp	String	Yes	The request timestamp. The timestamp uses UTC and complies with the ISO 8601 standard. The timestamp format is YYYY-MM-DDThh:mm:ssZ. For example, 20:00:00 on November 11, 2014 in China Standard Time (UTC +8) is written as 2014-11-11T12:00:00Z.
SignatureVersion	String	Yes	The signature algorithm version. The current version is 1.0.
SignatureNonce	String	Yes	A unique random number. This parameter is used to prevent replay attacks. You must use different random numbers for different requests.

Sample request

```
https://apigateway.[ RegionId].aliyuncs.com/?Format=xml &Version=2016-07-14 &Signature=Pc5WB8gokVn0xfeu%2FZV%2BiNM1dg****&SignatureMethod=HMACSHA1 &SignatureNonce=15215528852396 &SignatureVersion=1.0 &AccessKeyId=key-test &TimeStamp=2016-08-08T08:00:00Z
```

Common response parameters

The system returns a unique identifier (RequestId) for each API request, regardless of whether the API operation was called successfully.

Sample response in XML format

```
<? xml version="1.0" encoding="UTF-8"? >  
<!--Result root node-->
```

```
<Operation name+Response>
<!--Returned request tag-->
<RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
<!--Response data-->
</Operation name+Response>
```

Sample response in JSON format

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216",
  /* Response data */
}
```

1.4 Sign signatures

API Gateway authenticates each access request. Therefore, a request must contain signature information whether submitted using HTTP or HTTPS.

API Gateway performs symmetric encryption using the AccessKey ID and AccessKey Secret to verify the identity of a request sender. The AccessKey ID and AccessKey Secret are officially issued to visitors by Alibaba Cloud (visitors can apply for and manage them on the official Alibaba Cloud website).

- The AccessKey ID indicates the identity of the visitor.
- The AccessKey Secret is used to encrypt signature strings and verify signature strings sent by the server. It must be kept strictly confidential and only available to Alibaba Cloud and the user.

Perform the following steps to sign an access request:

1. Use request parameters to construct a canonicalized query string.

- To construct a canonicalized query string, sort all request parameters by name in alphabetic order. These parameters include common request parameters and customized API request parameters, but do not include the Signature parameter.



Note:

If a request is submitted using the GET method, these parameters are the section following the question mark (?) in the request URI. They are connected with ampersands (&).

- Encode the name and value of each request parameter. The parameter names and values must be encoded using UTF-8. The URL encoding rules are described as follows:
 - Uppercase and lowercase letters, numbers, hyphens (-), underscores (_), periods (.), and tildes (~) are not required to be encoded.

- Other characters are encoded as %XY, where XY is the hexadecimal representation of the character in ASCII. For example, double quotation marks (") are encoded as %22.
- Extended UTF-8 characters are encoded in the %XY%ZA... format.
- A space is encoded as %20, rather than the plus sign (+).

**Note:**

Most libraries that support URL encoding, such as `java.net.URLEncoder`, comply with the MIME encoding rules of `application/x-www-form-urlencoded`. If this encoding method is used, replace the plus signs (+) in the encoded strings with %20, the asterisks (*) with %2A, and %7E with a tilde (~) to conform to the encoding rules.

- Connect the encoded parameter names and values with equal signs (=).
 - Sort the equal sign-connected strings by their parameter names alphabetically and connect them with ampersands (&).
2. Use the created canonicalized query string to construct a string for signature calculation based on the following rule:

```
StringToSign=
HTTPMethod + "&" +
percentEncode("/") + "&" +
percentEncode(CanonicalizedQueryString)
```

In the preceding example,

- `HTTPMethod` indicates that an HTTP-style request such as `GET` is submitted.
 - `percentEncode("/")` is the encoded value (%2F) of a forward slash (/). The encoding follows the URL encoding rules described in the previous step.
 - `percentEncode(CanonicalizedQueryString)` is the string constructed using the canonicalized query string. The encoding follows the URL encoding rules described in the previous step.
3. Use the signature string to calculate the HMAC value of the signature as defined by RFC 2104 . Note: The key used for signature calculation is your AccessKey Secret. An ampersand (&) is added to the end of the key (ASCII: 38). The SHA-1 hashing is used.
4. Encode the HMAC value into a string based on the Base64 encoding rules. The string is the signature value.
5. Add this signature value as the value of the Signature parameter to the request parameters.
- You have now completed the request signing process.

**Note:**

The obtained signature value must use RFC 3986 URL encoding like other parameters before it can be submitted to the API Gateway server as the final request parameter value.

Taking DescribeRegions as an example, the request URL placed before the signature is as follows:

```
http://apigateway.[ RegionId].aliyuncs.com?Format=json&AccessKeyId=testid&Action=DescribeRegions&SignatureMethod=Hmac-SHA1&SignatureNonce=d48e931b-90c9-49c7-ac86-a70dd3607c88&SignatureVersion=1.0&Version=2016-07-14&Timestamp=2016-09-27T09%3A08%3A30Z
```

The StringToSign placed after the signature is as follows:

```
GET&%2F&AccessKeyId%3Dtestid%26Action%3DDescribeRegions%26Format%3Djson%26SignatureMethod%3DHmac-SHA1%26SignatureNonce%3Dd48e931b-90c9-49c7-ac86-a70dd3607c88%26SignatureVersion%3D1.0%26Timestamp%3D2016-09-27T09%253A08%253A30Z%26Version%3D2016-07-14
```

If the AccessKey ID is testid and the AccessKey Secret is testsecret, the key used for HMAC calculation is testsecret&. The calculated signature is DRdMb%2F1m7PeToGRBAPtL3wThy0g%3D.

The signed request URL with the Signature parameter added is as follows:

```
http://apigateway.[ RegionId].aliyuncs.com?Signature=DRdMb%2F1m7PeToGRBAPtL3wThy0g%3D&Format=json&AccessKeyId=testid&Action=DescribeRegions&SignatureMethod=Hmac-SHA1&SignatureNonce=d48e931b-90c9-49c7-ac86-a70dd3607c88&SignatureVersion=1.0&Version=2016-07-14&Timestamp=2016-09-27T09%3A08%3A30Z
```

1.5 API group operations

1.5.1 CreateApiGroup

Description

You can call this operation to create an API group. You must create an API group before creating APIs. The API group is a basic attribute of APIs.

- This operation is intended for API providers.
- Each user can create a maximum of 50 API groups in a region.
- A second-level domain name is automatically assigned to the API group for API testing.
- API groups have a region attribute. After you have created an API and selected a group for the API, the corresponding region is also selected. We recommend that you select the same region to which your backend services belong to reduce network delay.

- After you have created an API group, you can bind a custom domain name to the group.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to CreateApiGroup.
GroupName	String	Yes	The API group name that you want to specify, which must be globally unique. The name must be 4 to 50 characters in length . It must start with a letter and can contain letters, numbers, and underscores (_).
Description	String	Yes	The API group description that you want to specify, which cannot exceed 180 characters.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
GroupId	String	The API group ID, which is generated by the system and globally unique.
GroupName	String	The name of the API group.
SubDomain	String	The second-level domain name bound to the API group, which is used for testing API calls.
Description	String	The description of the API group.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=CreateApiGroup
&GroupName=Weather
&Description=The weather informations.
&<Common request parameters>
```

Sample responses

- XML format

```
<CreateApiGroupResponse>
  <RequestId>FF3B7D81-66AE-47E0-BF69-157DCF187514</RequestId>
  <GroupId>523e8dc7bbe04613b5b1d726c2a7889d</GroupId>
  <GroupName>Weather</GroupName>
```

```
<SubDomain>523e8dc7bbe04613b5b1d726c2a7889d-cn-hangzhou.
alicloudapi.com</SubDomain>
<Description>The weather informations</Description>
</CreateApiGroupResponse>
```

- JSON format

```
{
  "RequestId": "FF3B7D81-66AE-47E0-BF69-157DCF187514",
  "GroupId": "523e8dc7bbe04613b5b1d726c2a7889d",
  "GroupName": "Weather",
  "SubDomain": "523e8dc7bbe04613b5b1d726c2a7889d-cn-hangzhou.
alicloudapi.com",
  "Description": "The weather informations"
}
```

1.5.2 ModifyApiGroup

Description

You can call this operation to modify the name or description of an existing API group.

- This operation is intended for API providers.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to ModifyApiGroup.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.
GroupName	String	No	The API group name that you want to specify, which must be globally unique. The name must be 4 to 50 characters in length. It must start with a letter and can contain letters , numbers, and underscores (_). If this parameter is not specified, the group name is not modified.
Description	String	No	The API group description that you want to specify, which cannot exceed 180 characters. If this parameter is not specified, the group description is not modified.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Name	Type	Description
GroupId	String	The API group ID, which is generated by the system and globally unique.
GroupName	String	The name of the API group.
SubDomain	String	The second-level domain name automatically assigned to the API group.
Description	String	The description of the API group.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=ModifyApiGroup
&Description=New weather informations.
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&GroupName=NewWeather
&<Common request parameters>
```

Sample responses

- XML format

```
<ModifyApiGroupResponse>
  <RequestId>4CF287C6-CE5B-477B-BE27-C48F99EADBC8</RequestId>
  <GroupId>523e8dc7bbe04613b5b1d726c2a7889d</GroupId>
  <GroupName>NewWeather</GroupName>
  <SubDomain>523e8dc7bbe04613b5b1d726c2a7889d-cn-hangzhou.
alicloudapi.com</SubDomain>
  <Description>New weather informations. </Description>
</ModifyApiGroupResponse>
```

- JSON format

```
{
  "RequestId": "4CF287C6-CE5B-477B-BE27-C48F99EADBC8",
  "GroupId": "523e8dc7bbe04613b5b1d726c2a7889d",
  "GroupName": "NewWeather",
  "SubDomain": "523e8dc7bbe04613b5b1d726c2a7889d-cn-hangzhou.
alicloudapi.com"
  "Description": "New weather informations."
}
```

1.5.3 DeleteApiGroup

Description

You can call this operation to delete a specified API group.

- This operation is intended for API providers.

- An API group containing APIs cannot be deleted. To delete the API group, you must first delete its APIs.
- After an API group has been deleted, the second-level domain name assigned to the API group is automatically invalidated.
- If the specified API group does not exist, a successful response will still appear.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeleteApiGroup.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=DeleteApiGroup
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&<Common request parameters>
```

Sample responses

- XML format

```
<DeleteApiGroupResponse>
  <RequestId>E8515BA6-81CD-4191-A7CF-C4FCDD3C0D99</RequestId>
</DeleteApiGroupResponse>
```

- JSON format

```
{
  "RequestId": "E8515BA6-81CD-4191-A7CF-C4FCDD3C0D99"
```

```
}
```

1.5.4 CreateApiStageVariable

Description

You can call this operation to add a variable to a specified environment.

This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to CreateApiStageVariable.
GroupId	String	Yes	The ID of the API group.
StageId	String	Yes	The ID of the runtime environment.
VariableName	String	Yes	The name of the variable to be added. This parameter is case-sensitive.
VariableValue	String	No	The value of the variable to be added.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=CreateApiStageVariable
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&StageId=6EF60BEC-0242-43AF-BB20-270359FB54A7
&VariableName=serverName
&VariableValue=api.domain.com
&<Common request parameters>
```

Sample responses

- XML format

```
<CreateApiStageVariableResponse>
  <RequestId>03442A3D-3B7D-434C-8A95-A5FEB999B529</RequestId>
```

```
</CreateApiStageVariableResponse>
```

- JSON format

```
{  
  "RequestId": "03442A3D-3B7D-434C-8A95-A5FEB999B529"  
}
```

1.5.5 DeleteApiStageVariable

Description

You can call this operation to delete a variable in a specified environment.

This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeleteApiStageVariable.
GroupId	String	Yes	The ID of the API group.
StageId	String	Yes	The ID of the runtime environment.
VariableName	String	Yes	The name of the variable to be deleted. This parameter is case-sensitive.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=DeleteApiStageVariable  
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d  
&StageId=6EF60BEC-0242-43AF-BB20-270359FB54A7  
&VariableName=serverName  
&<Common request parameters>
```

Sample responses

- XML format

```
<DeleteApiStageVariableResponse>  
  <RequestId>03442A3D-3B7D-434C-8A95-A5FEB969B529</RequestId>
```



```
</DeleteApiStageVariableResponse>
```

- JSON format

```
{
  "RequestId": "03442A3D-3B7D-434C-8A95-A5FEB969B529"
}
```

1.5.6 DescribeApiGroup

Description

You can call this operation to query details about an API group, including the automatically generated second-level domain name, custom domain name, and SSL certificate.

- This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiGroup.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
GroupId	String	The API group ID, which is generated by the system and globally unique.
GroupName	String	The name of the API group.
SubDomain	String	The second-level domain name automatically assigned to the API group.
Description	String	The description of the API group.
CreatedTime	String	The creation time (UTC) of the API group.
ModifiedTime	String	The last modification time (UTC) of the API group.
RegionId	String	The region to which the API group belongs.
Status	String	The status of the API group. • NORMAL: The API group is normal. • DELETE: The API group has been deleted.

Name	Type	Description
BillingStatus	String	The billing status of the API group. - NORMAL: The API group is normal. - LOCKED: The API group is locked due to overdue payments.
IllegalStatus	String	The validity status of the API group. Valid values: - NORMAL: The API group is normal. - LOCKED: The API group is locked because it is not valid.
TrafficLimit	Integer	The upper QPS limit of the API group. The default value is 500. You can increase the upper limit by submitting an application.
CustomDomains	CustomDomain	The custom domain name information.
StageItems	StageInfo	The runtime environment information.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=DescribeApiGroup
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiGroupResponse>
  <RequestId>03442A3D-3B7D-434C-8A95-A5FEB989B519</RequestId>
  <GroupId>523e8dc7bbe04613b5b1d726c2a7889d</GroupId>
  <GroupName>NewWeather</GroupName>
  <SubDomain>927d50c0f2e54b359919923d908bb015-cn-hangzhou.
alicloudapi.com</SubDomain>
  <Description>New weather informations. </Description>
  <CreatedTime>2016-08-01T06:53:02Z</CreatedTime>
  <ModifiedTime>2016-08-01T06:54:32Z</ModifiedTime>
  <RegionId>cn-hangzhou</RegionId>
  <Status>NORMAL</Status>
  <BillingStatus>NORMAL</BillingStatus>
  <IllegalStatus>NORMAL</IllegalStatus>
  <TrafficLimit>500</TrafficLimit>
  <CustomDomains>
    <CustomDomain>
      <DomainName>api.demo.com</DomainName>
      <CertificateId>6EF60BEC-0242-43AF-BB20-270359FB54A7</
CertificateId>
      <CertificateName>myCertificate</CertificateName>
      <DomainNameResolution>RESOLVED</DomainNameResolution>
```

```
        <DomainStatus>BINDING</DomainStatus>
      </CustomDomain>
    </CustomDomains>
    <StageItems>
      <StageInfo>
        <StageId>123e8dc7bbe01613b5b1d726c2a7887e</StageId>
        <StageName>RELEASE</StageName>
        <Description>MYRELEASE</Description>
      </StageInfo>
      <StageInfo>
        <StageId>123e8dc7bbe01613b5b1d726c2a7888e</StageId>
        <StageName>TEST</StageName>
        <Description>MYTEST</Description>
      </StageInfo>
    </StageItems>
  </DescribeApiGroupResponse>
```

- JSON format

```
{
  "RequestId": "03442A3D-3B7D-434C-8A95-A5FEB989B519",
  "GroupId": "523e8dc7bbe04613b5b1d726c2a7889d",
  "GroupName": "NewWeather",
  "SubDomain": "927d50c0f2e54b359919923d908bb015-cn-hangzhou.
alicloudapi.com",
  "Description": "New weather informations.",
  "CreatedTime": "2016-08-01T06:53:02Z",
  "ModifiedTime": "2016-08-01T06:54:32Z",
  "RegionId": "cn-hangzhou",
  "Status": "NORMAL",
  "BillingStatus": "NORMAL",
  "IllegalStatus": "NORMAL",
  "TrafficLimit": "500",
  "CustomDomains": {
    "CustomDomain": {
      "DomainName": "api.demo.com",
      "CertificateId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
      "CertificateName": "myCertificate",
      "DomainNameResolution": "RESOLVED",
      "DomainStatus": "BINDING"
    }
  },
  "StageItems": {
    "StageInfo": [
      {
        "StageId": "123e8dc7bbe01613b5b1d726c2a7887e",
        "StageName": "RELEASE",
        "Description": "MYRELEASE"
      },
      {
        "StageId": "123e8dc7bbe01613b5b1d726c2a7888e",
        "StageName": "TEST",
        "Description": "MYTEST"
      }
    ]
  }
}
```

```
}
```

1.5.7 DescribeApiGroups

Description

You can call this operation to query existing API groups and their basic information.

This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiGroups.
GroupId	String	No	The API group ID, which is generated by the system and globally unique.
GroupName	String	No	The name of the API group.
PageNumber	Integer	No	The specific page number that you want to query . The default value is 1. The starting number is 1.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.
ApiGroupAttributes	ApiGroupAttribute	The returned group set.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=DescribeApiGroups  
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiGroupsResponse>
  <RequestId>D6E46F10-F26C-4AA0-BB69-FE2743D9AE62</RequestId>
  <TotalCount>2</TotalCount>
  <PageSize>10</PageSize>
  <PageNumber>1</PageNumber>
  <ApiGroupAttributes>
    <ApiGroupAttribute>
      <GroupId>be6d2abcc0dd4f749fc2d2edd6567164</GroupId>
      <GroupName>Traffic</GroupName>
      <SubDomain>be6d2abcc0dd4f749fc2d2edd6567164-cn-
hangzhou.alicloudapi.com</SubDomain>
      <Description>TrafficInformations. </Description>
      <CreatedTime>2016-08-01T08:45:15Z</CreatedTime>
      <ModifiedTime>2016-08-01T08:45:15Z</ModifiedTime>
      <RegionId>cn-hangzhou</RegionId>
      <TrafficLimit>500</TrafficLimit>
      <BillingStatus>NORMAL</BillingStatus>
      <IllegalStatus>NORMAL</IllegalStatus>
    </ApiGroupAttribute>
    <ApiGroupAttribute>
      <GroupId>927d50c0f2e54b359919923d908bb015</GroupId>
      <GroupName>NewWeather</GroupName>
      <SubDomain>927d50c0f2e54b359919923d908bb015-cn-
hangzhou.alicloudapi.com</SubDomain>
      <Description>NewWeatherInformations. </Description>
    >
      <CreatedTime>2016-08-01T06:54:32Z</CreatedTime>
      <ModifiedTime>2016-08-01T06:54:32Z</ModifiedTime>
      <RegionId>cn-hangzhou</RegionId>
      <TrafficLimit>500</TrafficLimit>
      <BillingStatus>NORMAL</BillingStatus>
      <IllegalStatus>NORMAL</IllegalStatus>
    </ApiGroupAttribute>
  </ApiGroupAttributes>
</DescribeApiGroupsResponse>
```

- JSON format

```
{
  "RequestId": "D6E46F10-F26C-4AA0-BB69-FE2743D9AE62",
  "TotalCount": "2",
  "PageSize": "10",
  "PageNumber": "1",
  "ApiGroupAttributes": {
    "ApiGroupAttribute": [
      {
        "GroupId": "be6d2abcc0dd4f749fc2d2edd6567164",
        "GroupName": "Traffic",
        "SubDomain": "be6d2abcc0dd4f749fc2d2edd6567164-cn-hangzhou
.alicloudapi.com",
        "Description": "TrafficInformations.",
        "CreatedTime": "2016-08-01T08:45:15Z",
        "ModifiedTime": "2016-08-01T08:45:15Z",
        "RegionId": "cn-hangzhou",
        "TrafficLimit": "500",
        "BillingStatus": "NORMAL",
        "IllegalStatus": "NORMAL"
      },
      {

```

```
    "GroupId": "927d50c0f2e54b359919923d908bb015",
    "GroupName": "NewWeather",
    "SubDomain": "927d50c0f2e54b359919923d908bb015-cn-hangzhou
.alicloudapi.com",
    "Description": "NewWeatherInformations.",
    "CreatedTime": "2016-08-01T06:54:32Z",
    "ModifiedTime": "2016-08-01T06:54:32Z",
    "RegionId": "cn-hangzhou",
    "TrafficLimit": "500",
    "BillingStatus": "NORMAL",
    "IllegalStatus": "NORMAL"
  }
}
```

1.5.8 DescribeApiStage

Description

You can call this operation to query details about a specified runtime environment of an API group.

- This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiStage.
GroupId	String	Yes	The ID of the API group.
StageId	String	Yes	The ID of the runtime environment.

Response parameters

Response parameters

Name	Type	Description
RequestId	String	The request ID.
GroupId	String	The ID of the API group.
StageId	String	The ID of the runtime environment.
StageName	String	The name of the runtime environment.
Description	String	The description of the runtime environment.
CreatedTime	String	The creation time (UTC) of the runtime environment.

Name	Type	Description
ModifiedTime	String	The last modification time (UTC) of the runtime environment.
Variables	VariableItem	The variable information.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=DescribeApiStage
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&StageId=6EF60BEC-0242-43AF-BB20-270359FB54A7
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiStageResponse>
  <RequestId>03442A3D-3B7D-434C-8A95-A5FEB989B529</RequestId>
  <GroupId>523e8dc7bbe04613b5b1d726c2a7889d</GroupId>
  <StageId>123e8dc7bbe01613b5b1d726c2a7887e</StageId>
  <StageName>RELEASE</StageName>
  <Description>myRELEASE</Description>
  <CreatedTime>2016-08-01T06:53:02Z</CreatedTime>
  <ModifiedTime>2016-08-01T06:54:32Z</ModifiedTime>
  <Status>NORMAL</Status>
  <BillingStatus>NORMAL</BillingStatus>
  <IllegalStatus>NORMAL</IllegalStatus>
  <TrafficLimit>500</TrafficLimit>
  <Variables>
    <VariableItem>
      <VariableName>serverName</VariableName>
      <VariableValue>api.domain.com</VariableValue>
    </VariableItem>
    <VariableItem>
      <VariableName>version</VariableName>
      <VariableValue>v1.0</VariableValue>
    </VariableItem>
  </Variables>
</DescribeApiStageResponse>
```

- JSON format

```
{
  "RequestId": "03442A3D-3B7D-434C-8A95-A5FEB989B529",
  "GroupId": "523e8dc7bbe04613b5b1d726c2a7889d",
  "StageId": "123e8dc7bbe01613b5b1d726c2a7887e",
  "StageName": "RELEASE",
  "Description": "myRELEASE",
  "CreatedTime": "2016-08-01T06:53:02Z",
  "ModifiedTime": "2016-08-01T06:54:32Z",
  "Status": "NORMAL",
  "BillingStatus": "NORMAL",
  "IllegalStatus": "NORMAL",
```

```
"TrafficLimit": "500",
"Variables": {
  "VariableItem": [
    {
      "VariableName": "serverName",
      "VariableValue": "api.domain.com"
    },
    {
      "VariableName": "version",
      "VariableValue": "v1.0"
    }
  ]
}
```

1.6 Domain name operations

1.6.1 SetDomain

Description

You can call this operation to bind a custom domain name to a specified API group.

- This operation is intended for API providers.
- For an independent domain name, you must add a CNAME record to the second-level domain name of the specified group, or add an A record to the external IP address of API Gateway.
- To bind the independent domain name of another group to the current group, you must resolve the independent domain name and then bind it to the current group.
- If HTTPS is used, you must also bind the SSL certificate and specify the CertificateName, CertificateBody, and PrivateKey parameters.
- You can then upload the SSL certificate. For more information, see SetDomainCertificate.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to SetDomain.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.
DomainName	String	Yes	The custom domain name.
CertificateName	String	No	The SSL certificate name.
CertificateBody	String	No	The content of the SSL certificate.
PrivateKey	String	No	The private key of the SSL certificate.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
GroupId	String	The API group ID, which is generated by the system and globally unique.
DomainName	String	The custom domain name.
SubDomain	String	The second-level domain name bound to the API group, which is used to test API calls.
DomainBindingStatus	String	The binding status of the custom domain name. Valid values: - BINDING: The domain name has been bound. - BOUND: The domain name has not been bound.

Examples

Sample request

```
https://apigateway.cn-hangzhou.aliyuncs.com/?Action=SetDomain
&GroupId=927d50c0f2e54b359919923d908bb015
&DomainName=api.demo.com
&<Common request parameters>
```

Sample responses

- XML format

```
<SetDomainResponse>
  <RequestId>6EF60BEC-0242-43AF-BB20-270359FB54A7</RequestId>
  <GroupId>927d50c0f2e54b359919923d908bb015</GroupId>
  <DomainName>api.demo.com</DomainName>
  <SubDomain>927d50c0f2e54b359919923d908bb015-cn-hangzhou.
alicloudapi.com</SubDomain>
  <DomainBindingStatus>BINDING</DomainBindingStatus>
</SetDomainResponse>
```

- JSON format

```
{
  "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
  "GroupId": "927d50c0f2e54b359919923d908bb015",
  "DomainName": "api.abcdef.com",
  "SubDomain": "927d50c0f2e54b359919923d908bb015-cn-hangzhou.
alicloudapi.com",
  "DomainBindingStatus": "BINDING"
```

```
}
```

1.6.2 SetDomainCertificate

Description

You can call this operation to upload an SSL certificate for a specific custom domain name.

- This operation is intended for API providers.
- The SSL certificate must match the custom domain name.
- HTTPS-based API services will be available after the SSL certificate has been bound.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to SetDomainCertificate.
GroupId	String	Yes	The ID of the API group that you want to add an SSL certificate to. This ID is generated by the system and globally unique.
DomainName	String	Yes	The custom domain name.
CertificateName	String	Yes	The SSL certificate name.
CertificateBody	String	Yes	The content of the SSL certificate.
CertificatePrivateKey	String	Yes	The private key of the SSL certificate.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-hangzhou.aliyuncs.com/?Action=SetDomainCertificate
&GroupId=927d50c0f2e54b359919923d908bb015
&DomainName=api.demo.com
&CertificateName=test_cert
&CertificateBody=-----BEGIN CERTIFICATE-----
MIICaTCCAdICCQDLdvXtNkCrHjANBgkqhkiG9w0BAQUFADB5MQswCQYDVQQGEwJD
TjELMAkGA1UECBMCwKoxCzAJBgNVBACTAKhaMQ0wCwYDVQQKEwR0ZXN0MQ0wCwYD
VQQLEwR0ZXN0MRQwEgYDVQQDEwthcGkuawXhZC5jbjEcmBoGCSqGSIB3DQEJARYN
dGVzdEB0ZXN0LmNvbTAeFw0xNjAzMzEwMzMxMTBaFw0yNjAzMjkwMzMxMTBaMHkx
CzAJBgNVBAYTAKNOMQswCQYDVQQIEwJaSjELMAkGA1UEBxMCSFoxDTALBgNVBAOT
```

```
BHRlc3QxDtALBgNVBAsTBHRlc3QxFDASBgNVBAMTC2FwaS5pbGFkLmNuMRwwGgYJ
KoZiHvcNAQKBFG10ZXN0QHRlc3QuY29tMIGfMA0GCSqGSIb3DQEBAQUAA4GNADCB
iQKBgQDFfPttXLedyMF+tk/9VIGIIQ90LEx6JwfuKX38a08zLN3+KxU7kMXBLYN7
kB7yZDsHBo87wlxXXPg7F0+3HjEcW8FgBFNfrnLLjXEK23Lrkn/3AdVulQ+eEi
oVf0okQ1P07GYFZSo8UFvBz0l2An/f2Sd/bey713/rIUvgUd7wIDAQABMA0GCSqG
SIb3DQEBAQUAA4GBAAqj2TQ8jzbnM5IDM8fMOARKLQK8qTgkrHMAMEq7PJwNRtK
A05enhbgZKJYkYhYk5nccWb3XZuklm6KX/ImWM1zfxi9EjvdD6Xkvxd9RpdZwlod
zu6LnGpfi0YFiIBY301sFp0ACPudUvE1tVckrqM/ONPNhHWEnkAT9DF84hEN
-----END CERTIFICATE-----
&CertificatePrivateKey=-----BEGIN RSA PRIVATE KEY-----
MIICXAIBAAKBgQDFfPttXLedyMF+tk/9VIGIIQ90LEx6JwfuKX38a08zLN3+KxU7
kMXBLYN7kB7yZDsHBo87wlxXXPg7F0+3HjEcW8FgBFNfrnLLjXEK23Lrkn/3Ad
VulQ+eEioVf0okQ1P07GYFZSo8UFvBz0l2An/f2Sd/bey713/rIUvgUd7wIDAQAB
AoGAeBxKgvlyv5Mg8+MIBUHH07b3wi1LGiPw882yfTiI+vM4jORBFqg3TgVTaWw/
FicVq3E23h6YsN2vb6eNH+8x6DtGGZFiaWqIubWGEFenct8GPnlnY6JnxDdLMOGT
K0P0r4qMZD5gSRs4sGR/wcGdbCGvSaFrzEConLmsaSlgLTkCQQD5KVvwchG/pai0
o13LJ9F4TVSegt8roH6Q00SuEb4GiKqULY+Q1+PIBMHS1VciBJGyAWreLJkZnfKK
g80cDL6VAkEAYuiPBt4u9dc68qet9vgVAYBI95vyCvg2u+MdVJKFYKaqNEDXbeyV
qsrIsJ46LCAsQiLpzdEyr0ioGiW3yNo9cwJBAKkn0EMR0UT0JcIFSy8aaFahQXqf
5P1MZ8BpzHXU68qpzA02AJLYTvdDa4dEeXRJ39QWreQLySEgH0K0unJ5oIUCQDtp
Ln+vTia091CXYit+5f+jhTni0LL97GDFfHbu0llbU1irZ6iK7i0s9uXo3lWPMgZH
XLfjuffAw3+sbYyEwhsCQEtKrLCYEi5PQ4Z2RjonIBWwgXs+hDkd6qe5QM4Asr5t
SDX2p8U+SnnvzJ3HuLM2ZB3D8duKJHCrKw0jX7nlXHo=
-----END RSA PRIVATE KEY-----
&<Common request parameters>
```

Sample responses

- XML format

```
<SetDomainCertificateResponse>
  <RequestId>6EF60BEC-0242-43AF-BB20-270359FB54A7</RequestId>
</SetDomainCertificateResponse>
```

- JSON format

```
{
  "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
}
```

1.6.3 DescribeDomain

Description

You can call this operation to query details about the custom domain name bound to an API group. The details include the automatically assigned second-level domain name, custom domain name, and SSL certificate.

This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeDomain.
GroupId	String	Yes	The ID of the API group to which the domain name to be queried is bound. This ID is generated by the system and globally unique.
DomainName	String	Yes	The custom domain name.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
GroupId	String	The ID of the API group to which the deleted domain name is bound. This ID is generated by the system and globally unique.
DomainName	String	The custom domain name.
SubDomain	String	The second-level domain name automatically assigned to the API group.
CertificateId	String	The SSL certificate ID, which is automatically generated by the system.
CertificateName	String	The SSL certificate name.
CertificateBody	String	The content of the SSL certificate.
CertificatePrivateKey	String	The private key of the SSL certificate.
DomainBindingStatus	String	The binding status of the custom domain name. Valid values: - BINDING: The domain name has been bound. - BOUND: The domain name has not been bound.
DomainCNAMEStatus	String	The domain name resolution status. Valid values: RESOLVED: The domain name has been resolved.

Name	Type	Description
		UNRESOLVED: The domain name has not been resolved.

Examples

Sample request

```
https://apigateway.cn-hangzhou.aliyuncs.com/?Action=DescribeDomain
&GroupId=927d50c0f2e54b359919923d908bb015
&DomainName=api.demo.com
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeDomainResponse>
  <RequestId>6EF60BEC-0242-43AF-BB20-270359FB54A7</RequestId>
  <GroupId>927d50c0f2e54b359919923d908bb015</GroupId>
  <SubDomain>927d50c0f2e54b359919923d908bb015-cn-hangzhou.
alicloudapi.com</SubDomain>
  <DomainName>api.demo.com</DomainName>
  <CertificateId>6EF60BEC-0242-43AF-BB20-270359FB54A7</Certificat
eId>
  <CertificateName>myCertificate</CertificateName>
  <CertificateBody>.. </CertificateBody>
  <CertificatePrivateKey>.. </CertificatePrivateKey>
  <DomainBindingStatus>BINDING</DomainBindingStatus>
  <DomainCNAMEStatus>RESOLVED</DomainCNAMEStatus>
</DescribeDomainResponse>
```

- JSON format

```
{
  "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
  "GroupId": "927d50c0f2e54b359919923d908bb015",
  "SubDomain": "927d50c0f2e54b359919923d908bb015-cn-hangzhou.
alicloudapi.com",
  "DomainName": "api.demo.com",
  "CertificateId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
  "CertificateName": "myCertificate",
  "CertificateBody": "..",
  "CertificatePrivateKey": "..",
  "DomainBindingStatus": "BINDING",
  "DomainCNAMEStatus": "RESOLVED"
}
```

1.6.4 DeleteDomain

Description

You can call this operation to unbind the custom domain name from a specified API group.

- This operation is intended for API providers.
- If the specified domain name does not exist, a successful response will still appear.
- Unbinding the domain name of an API group will affect access to the APIs in the group. Exercise caution when using this operation.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeleteDomain.
GroupId	String	Yes	The ID of the API group to which the domain name to be deleted is bound. This ID is generated by the system and globally unique.
DomainName	String	Yes	The custom domain name.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-hangzhou.aliyuncs.com/?Action=DeleteDomain
&GroupId=927d50c0f2e54b359919923d908bb015
&DomainName=api.demo.com
&<Common request parameters>
```

Sample responses

- XML format

```
<DeleteDomainResponse>
  <RequestId>6EF60BEC-0242-43AF-BB20-270359FB54A7</RequestId>
</DeleteDomainResponse>
```

- JSON format

```
{
  "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
```

```
}
```

1.6.5 DeleteDomainCertificate

Description

You can call this operation to delete the SSL certificate of a specific domain name.

- This operation is intended for API providers.
- If the specified SSL certificate does not exist, a successful response will still appear.
- If the specified API group does not exist, the InvalidGroupId.NotFound error is returned.
- HTTPS access is not supported after the SSL certificate has been deleted. Exercise caution when using this API.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeleteDomainCertificate.
GroupId	String	Yes	The ID of the API group containing the SSL certificate that you want to delete. This ID is generated by the system and globally unique.
DomainName	String	Yes	The custom domain name.
CertificateId	String	Yes	The ID of the SSL certificate that you want to delete. It is automatically generated by the system and globally unique.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-hangzhou.aliyuncs.com/?Action=DeleteDomainCertificate
&GroupId=927d50c0f2e54b359919923d908bb015
&DomainName=api.demo.com
&CertificateId=6EF60BEC-0242-43AF-BB20-270359FB54A7
&<Common request parameters>
```

Sample responses

- XML format

```
<DeleteDomainCertificateResponse>  
  <RequestId>6EF60BEC-0242-43AF-BB20-270359FB54A7</RequestId>  
</DeleteDomainCertificateResponse>
```

- JSON format

```
{  
  "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"  
}
```

1.7 API management operations

1.7.1 CreateApi

Description

You can call this operation to create an API.

- This operation is intended for API providers.
- The name of each API within the same group must be unique.
- Each request path within the same group must be unique.
- A group can contain up to 200 APIs.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to CreateApi.
GroupId	String	Yes	The ID of the API group that you want to create an API in.
ApiName	String	Yes	The name of the API that you want to create, which is unique within the API group. The name must be 4 to 50 characters in length. It must start with a letter and can contain letters, numbers, and underscores (_).
Visibility	String	Yes	Indicates whether the API is public. Valid values: • PUBLIC: Indicates the API is public. In Apsara Stack, this value is invalid and the visibility of all APIs is fixed as PRIVATE. • PRIVATE: Indicates the API is private.
Description	String	Yes	The API description, which cannot exceed 180 characters.

Name	Type	Required	Description
AuthType	String	Yes	The API security authorization type. Valid values: • APP: Only authorized applications can call the API. • ANONYMOUS: The API can be called anonymously. In such a mode, you must note the following: — Anyone who can obtain this API service information will have the permission to call this API. API Gateway does not authenticate callers and cannot set user-specific throttling policies. If you make this API public, set API-based throttling policies. — We do not recommend making APIs with anonymous authentication available in the Alibaba Cloud Marketplace. API Gateway cannot bill callers separately or control the number of calls. Before you add a group containing such APIs to the Marketplace, we recommend that you move them to another group, set their Visibility to PRIVATE, or set their AuthType to APP. • APPOPENID: The third-party OpenID Connect account authentication method is used, allowing only authorized applications to call the API. If this method is selected, the OpenIdConnectConfig parameter is required.
OpenIdConnectConfig	String	Yes	The OpenID Connect configuration items. For more information, see ApiAttributesType.md#OpenIdConnectConfig .
RequestConfig	String	Yes	The configuration items for an API request sent by a consumer to API Gateway. For more information, see ApiAttributesType.md#RequestConfig .
ServiceConfig	String	Yes	The configuration items for an API request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceConfig .
RequestParameters	String	Yes	The parameter description for an API request sent by a consumer to API Gateway. For more information, see ApiAttributesType.md#RequestParameters .
ServiceParameters	String	Yes	The parameter description for an API request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceParameters .
ServiceParametersMap	String	Yes	The mappings between parameters of a request sent by a consumer to API Gateway and parameters of a

Name	Type	Required	Description
			request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceParametersMap .
ResultType	String	Yes	The format of the response from the backend service. Valid values: JSON, TEXT, BINARY, XML, and HTML.
ResultSample	String	Yes	The sample response from the backend service.
FailResult Sample	String	No	The sample error response from the backend service.
ErrorCodeSamples	String	No	The sample error code returned by the backend service . For more information, see ApiAttributesType.md#ErrorCodeSamples .

Response parameters

Name	Type	Description
RequestId	String	The ID of the current API creation request.
ApilId	String	The ID of the API being created.

Examples

Sample request

```
https://ecs.aliyuncs.com/?Action=CreateApi
&GroupId=08ae4aa0f95e4321849ee57f4e0b3077
&ApiName=ApiName
&Visibility=PUBLIC
&Description=Api description
&AuthType=APP
&RequestConfig={"RequestProtocol":"HTTP","RequestHttpMethod":"GET",
"RequestPath":"/v3/getUserTest/[userId]","BodyFormat":"FORM","
PostBodyDescription":""}
&ServiceConfig={"ServiceProtocol":"HTTP","ServiceHttpMethod":"GET",
"ServiceAddress":"http://www.customerdomain.com","ServiceTimeout":"1000",
"ServicePath":"/v3/getUserTest/[userId]"}
&RequestParameters=[{"ParameterType":"Number","Required":"OPTIONAL",
"isHide":false,"ApiParameterName":"age","DefaultValue":"20","DemoValue":
"20","Description":"Age","MinValue":18,"MaxValue":100,"Location":
"Head"}, {"ParameterType":"String","Required":"OPTIONAL","isHide":
false,"ApiParameterName":"sex","DefaultValue":"boy","DemoValue":
"boy","Description":"Gender","EnumValue":"boy,girl","Location":"Query"},
{"ParameterType":"Number","Required":"REQUIRED","isHide":false,
"ApiParameterName":"userId","MaxLength":10,"MinValue":100000000,
"MaxValue":1000000000,"Location":"Path"}, {"ApiParameterName":"CaClientIp",
"ParameterLocation":{"name":"Head","orderNumber":0},"Location":"Head",
"ParameterType":"String","Required":"REQUIRED","Description":"Client IP address"}, {"ApiParameterName":"constance", "ParameterLocation": {"name":"Head","orderNumber":0}, "Location":"Head", "ParameterType":"String"}]
```

```
String", "Required": "REQUIRED", "DefaultValue": "constance", "Description": "constance"]
&ServiceParameters=[{"ServiceParameterName": "age", "Location": "Head", "Type": "Number", "ParameterCatalog": "REQUEST"}, {"ServiceParameterName": "sex", "Location": "Query", "Type": "String", "ParameterCatalog": "REQUEST"}, {"ServiceParameterName": "userId", "Location": "Path", "Type": "Number", "ParameterCatalog": "REQUEST"}, {"ServiceParameterName": "clientId", "Location": "Head", "Type": "String", "ParameterCatalog": "SYSTEM"}, {"ServiceParameterName": "constance", "Location": "Head", "Type": "String", "ParameterCatalog": "CONSTANT"}]
&ServiceParametersMap=[{"ServiceParameterName": "age", "RequestParameterName": "age"}, {"ServiceParameterName": "sex", "RequestParameterName": "sex"}, {"ServiceParameterName": "userId", "RequestParameterName": "userId"}, {"ServiceParameterName": "clientId", "RequestParameterName": "CaClientId"}, {"ServiceParameterName": "constance", "RequestParameterName": "constance"}]
&ResultType=HTML
&ResultSample=200
&<Common request parameters>
```

Sample responses

- XML format

```
<CreateApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BA984</RequestId>
  <ApiId>8afff6c8c4c6447abb035812e4d66b65</ApiId>
</CreateApiResponse>
```

- JSON format

```
{
  "RequestId": "6C87A26A-6A18-4B8E-8099-705278381A2C",
  "ApiId": "8afff6c8c4c6447abb035812e4d66b65"
}
```

1.7.2 ModifyApi

Description

You can call this operation to modify the definition of a specified API.

- This operation is intended for API providers.
- When you modify an API name, ensure that the name of each API within the same group is unique.
- When you modify the request path, ensure that each request path within the same group is unique.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to ModifyApi.
GroupId	String	Yes	The ID of the specified API group.
ApiId	String	Yes	The ID of the API that you want to modify.
ApiName	String	Yes	The name of the API that you want to modify, which is unique within the API group. The name must be 4 to 50 characters in length. It must start with a letter and can contain letters, numbers, and underscores (_).
Visibility	String	Yes	Indicates whether the API is public. Valid values: - PUBLIC: Indicates the API is public. In Apsara Stack, this value is invalid and the visibility of all APIs is fixed as PRIVATE. - PRIVATE: Indicates the API is private.
Description	String	Yes	The API description, which cannot exceed 180 characters.
AuthType	String	Yes	The API security authorization type. Valid values: - APP: Only authorized applications can call the API. - ANONYMOUS: The API can be called anonymously. In such a mode, you must note the following: — Anyone who can obtain this API service information will have the permission to call this API. API Gateway does not authenticate callers and cannot set user-specific throttling policies. If you make this API public, set API-based throttling policies. — We do not recommend making APIs with anonymous authentication available in the Alibaba Cloud Marketplace. API Gateway cannot bill callers separately or control the number of calls. Before you add a group containing such APIs to the Marketplace, we recommend that you move them to another group, set their Visibility to PRIVATE, or set their AuthType to APP. - APPOPENID: The third-party OpenID Connect account authentication method is used, allowing only authorized applications to call the API. If this method is selected, the OpenIdConnectConfig parameter is required.

Name	Type	Required	Description
OpenIdConnectConfig	String	Yes	The OpenID Connect configuration items. For more information, see ApiAttributesType.md#OpenIdConnectConfig .
RequestConfig	String	Yes	The configuration items for an API request sent by a consumer to API Gateway. For more information, see ApiAttributesType.md#RequestConfig .
ServiceConfig	String	Yes	The configuration items for an API request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceConfig .
RequestParameters	String	Yes	The parameter description for an API request sent by a consumer to API Gateway. For more information, see ApiAttributesType.md#RequestParameters .
ServiceParameters	String	Yes	The parameter description for an API request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceParameters .
ServiceParametersMap	String	Yes	The mappings between parameters of a request sent by a consumer to API Gateway and parameters of a request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceParametersMap .
ResultType	String	Yes	The format of the response from the backend service. Valid values: JSON, TEXT, BINARY, XML, and HTML.
ResultSample	String	Yes	The sample response from the backend service.
FailResultSample	String	No	The sample error response from the backend service.
ErrorCodeSamples	String	No	The sample error code returned by the backend service. For more information, see ApiAttributesType.md#ErrorCodeSamples .

Response parameters

Name	Type	Description
RequestId	String	The ID of the current API creation request.

Examples

Sample request

```
https://ecs.aliyuncs.com/?Action=ModifyApi
&GroupId=08ae4aa0f95e4321849ee57f4e0b3077
&ApiName=ApiName
&ApiId=8afff6c8c4c6447abb035812e4d66b65
&Visibility=PUBLIC
&Description=Api description
&AuthType=APP
&RequestConfig={"RequestProtocol":"HTTP","RequestHttpMethod":"GET",
  "RequestPath":"/v3/getUserTest/[userId]","BodyFormat":"FORM","
  PostBodyDescription":""}
&ServiceConfig={"ServiceProtocol":"HTTP","ServiceHttpMethod":"GET",
  "ServiceAddress":"http://www.customerdomain.com","ServiceTimeout":"1000",
  "ServicePath":"/v3/getUserTest/[userId]"}
&RequestParameters=[{"ParameterLocation":{"name":"Head","orderNumber":1},
  "ParameterType":"Number","Required":"OPTIONAL","isHide":false,
  "ApiParameterName":"age","DefaultValue":"20","DemoValue":"20","
  Description":"Age","MinValue":18,"MaxValue":100,"Location":"Head"},
  {"ParameterLocation":{"name":"Query","orderNumber":2},
  "ParameterType":"String","Required":"OPTIONAL","isHide":false,
  "ApiParameterName":"sex","DefaultValue":"boy","DemoValue":"boy",
  "Description":"Gender","EnumValue":["boy","girl"],
  "Location":"Query"}, {"ParameterLocation":{"name":
  "Parameter Path","orderNumber":3},
  "ParameterType":"Number","Required":"REQUIRED",
  "isHide":false,
  "ApiParameterName":"userId","MaxLength":10,
  "MinValue":100000000,"MaxValue":1000000000,
  "Location":"Path"}, {"ApiParameterName":"CaClientIp",
  "ParameterLocation":{"name":"Head","orderNumber":0},
  "Location":"Head","ParameterType":"String",
  "Required":"REQUIRED","Description":"Client IP address"},
  {"ApiParameterName":"constance",
  "ParameterLocation":{"name":"Head","orderNumber":0},
  "Location":"Head","ParameterType":"String",
  "Required":"REQUIRED","DefaultValue":"constance",
  "Description":"constance"}]
&ServiceParameters=[{"ServiceParameterName":"age",
  "Location":"Head","Type":"Number",
  "ParameterCatalog":"REQUEST"}, {"ServiceParameterName":"sex",
  "Location":"Query","Type":"String",
  "ParameterCatalog":"REQUEST"}, {"ServiceParameterName":"userId",
  "Location":"Path","Type":"Number",
  "ParameterCatalog":"REQUEST"}, {"ServiceParameterName":"clientId",
  "Location":"Head","Type":"String",
  "ParameterCatalog":"SYSTEM"}, {"ServiceParameterName":"constance",
  "Location":"Head","Type":"String",
  "ParameterCatalog":"CONSTANT"}]
&ServiceParametersMap=[{"ServiceParameterName":"age",
  "RequestParameterName":"age"}, {"ServiceParameterName":"sex",
  "RequestParameterName":"sex"}, {"ServiceParameterName":"userId",
  "RequestParameterName":"userId"}, {"ServiceParameterName":"clientId",
  "RequestParameterName":"CaClientIp"}, {"ServiceParameterName":"constance",
  "RequestParameterName":"constance"}]
&ResultType=HTML
&ResultSample=200
&<Common request parameters>
```

Sample responses

- XML format

```
<ModifyApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BA984</RequestId>
```

```
</ModifyApiResponse>
```

- JSON format

```
{  
  "RequestId": "6C87A26A-6A18-4B8E-8099-705278381A2C"  
}
```

1.7.3 DeployApi

Description

You can call this operation to publish an API to a specified runtime environment.

- This operation is intended for API providers. Only the API that you have defined and published to a runtime environment can be called.
- An API is published to a cluster in under 5 seconds.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeployApi.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StageName	String	Yes	The name of the runtime environment. Valid values: • RELEASE. • TEST.
Description	String	Yes	The description of the current publication.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DeployApi  
&GroupId=63be9002440b4778a61122f14c2b2bbb  
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16
```

```
&StageName=release
&Description=for_test1
&<Common request parameters>
```

Sample responses

- XML format

```
<DeployApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
</DeployApiResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ015"
}
```

1.7.4 SwitchApi

Description

You can call this operation to switch the API definition running in the specified runtime environment to a historical version.

- This operation is intended for API providers.
- The historical version can be obtained through the DescribeHistoryApis API.
- Only APIs that have been published more than once have historical versions to switch to.
- This operation can only be performed on running APIs. Use caution when performing this operation because the operation cannot be undone after it has been completed and takes effect within 5 seconds.
- The switch operation is in essence a publish operation, and the reason for this operation must be provided.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to SwitchApi.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StageName	String	Yes	The name of the runtime environment. Valid values:

Name	Type	Required	Description
			- RELEASE. - TEST.
HistoryVersion	String	Yes	The historical version you want to use.
Description	String	Yes	The description of the switch operation.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=SwitchApi
&GroupId=63be9002440b4778a61122f14c2b2bbb
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16
&StageName=release
&HistoryVersion=20160705104552292
&Description=for_demo
&<Common request parameters>
```

Sample responses

- XML format

```
<SwitchApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ001</RequestId>
</SwitchApiResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ001"
}
```

1.7.5 AbolishApi

Description

You can call this operation to unpublish a specified API from a specified runtime environment.

- This operation is intended for API providers and is the opposite of DeployApi.
- An API can be unpublished from a specified runtime environment in under 5 seconds.
- An unpublished API cannot be called in the specified runtime environment.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to AbolishApi.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StageName	String	Yes	The name of the runtime environment. Valid values: - RELEASE. - TEST.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=AbolishApi
&GroupId=63be9002440b4778a61122f14c2b2bbb
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16
&StageName=RELEASE
&<Common request parameters>
```

Sample responses

- XML format

```
<AbolishApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ016</RequestId>
</AbolishApiResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ016"
```

```
}
```

1.7.6 DeleteApi

Description

You can call this operation to delete the definition of a specified API.

- This operation is intended for API providers and cannot be undone after it has been completed.
- An API running in the runtime environment must be unpublished before being deleted.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeleteApi.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DeleteApi
&GroupId=63be9002440b4778a61122f14c2b2bbb
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16
&<Common request parameters>
```

Sample responses

- XML format

```
<DeleteApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ017</RequestId>
</DeleteApiResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ017"
```

```
}
```

1.7.7 DescribeApi

Description

You can call this operation to query API definitions.

- This operation is intended for API providers.
- This operation allows you to query the definition of a specified API.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApi.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
RegionId	String	The region to which the API belongs.
ApiId	String	The ID of the API.
ApiName	String	The name of the API, which is unique in the group.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
Visibility	String	Indicates whether the API is public. Valid values: • PUBLIC: indicates the API is public. In Apsara Stack, this value is invalid and the visibility of all APIs is fixed as PRIVATE. • PRIVATE: indicates the API is private.
AuthType	String	The security authorization method. Valid values: • APP: Only authorized applications can call the API. • ANONYMOUS: The API can be called anonymously. In such a mode, you must note the following:

Name	Type	Description
		— Anyone who can obtain this API service information will have the permission to call this API. API Gateway does not authenticate callers and cannot set user-specific throttling policies. If you make this API public, set API-based throttling policies. — We do not recommend making APIs with anonymous authentication available in the Alibaba Cloud Marketplace. API Gateway cannot bill callers separately or control the number of calls. Before you add a group containing such APIs to the Marketplace, we recommend that you move them to another group, set their Visibility to PRIVATE, or set their AuthType to APP. • APPOPENID: The third-party OpenID Connect account authentication method is used, allowing only authorized applications to call the API. If this method is selected, the OpenIdConnectConfig parameter is required.
ResultType	String	The format of the response from the backend service. Valid values: JSON, TEXT, BINARY, XML, and HTML.
ResultSample	String	The sample response returned by the backend service.
FailResultSample	String	The sample response returned when the backend service fails.
CreateTime	String	The creation time of the API.
ModifyTime	String	The last modification time of the API.
Description	String	The description of the API.
ErrorCodeSamples	ErrorCodeSample	The sample error code returned by the backend service. For more information, see ApiAttributesType.md#ErrorCodeSamples.
SystemParameters	SystemParameter	The system parameters sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#SystemParameters.
ConstantParameters	ConstantParameter	The constant parameters sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ConstantParameters.
RequestParametersObject	RequestParameter	The description of parameters of an API request sent by a caller to API Gateway. For more information, see ApiAttributesType.md#RequestParameters.

Name	Type	Description
ServiceParametersObject	ServiceParameter	The description of parameters of an API request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceParameters .
ParametersMapObject	ServiceParameterMap	The mappings between parameters of a request sent by a caller to API Gateway and parameters of a request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceParametersMap .
DeployedInfos	DeployedInfo	The publishing status of the API. For more information, see ApiAttributesType.md#DeployedInfos .
RequestConfig	RequestConfig	The configuration items of an API request sent by a caller to API Gateway. For more information, see ApiAttributesType.md#RequestConfig .
ServiceConfig	ServiceConfig	The configuration items of an API request sent by API Gateway to a backend service. For more information, see ApiAttributesType.md#ServiceConfig .
OpenIdConnectConfig	OpenIdConnectConfig	The configuration items of the third-party OpenID Connect account authentication method. For more information, see ApiAttributesType.md#OpenIdConnectConfig .

Examples

Sample request

```
https://ecs.aliyuncs.com/?Action=DescribeApi
&GroupId=08ae4aa0f95e4321849ee57f4e0b3077
&ApiId=8afff6c8c4c6447abb035812e4d66b65
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiResponse>
  <RequestId>D0FF585F-7966-40CF-BC60-75DB070B23D5</RequestId>
  <RegionId>cn-qingdao</RegionId>
  <Description>Api description</Description>
  <ApiName>ApiName</ApiName>
  <CreatedTime>2016-07-28T09:50:43Z</CreatedTime>
  <GroupName>ApiTest</GroupName>
  <ModifiedTime>2016-07-28T13:13:12Z</ModifiedTime>
  <ServiceParametersObject>
    <ServiceParam>
      <ServiceParameterName>age</ServiceParameterName>
      <Type>Number</Type>
      <Location>head</Location>
    </ServiceParam>
  </ServiceParametersObject>
</DescribeApiResponse>
```

```

    <ServiceParam>
      <ServiceParameterName>sex</ServiceParameterName>
      <Type>String</Type>
      <Location>query</Location>
    </ServiceParam>
    <ServiceParam>
      <ServiceParameterName>userId</ServiceParameterName>
      <Type>Number</Type>
      <Location>path</Location>
    </ServiceParam>
    <ServiceParam>
      <ServiceParameterName>clientIp</ServiceParameterName>
      <Type>String</Type>
      <Location>head</Location>
    </ServiceParam>
    <ServiceParam>
      <ServiceParameterName>constance</ServiceParameterName>
      <Type>String</Type>
      <Location>head</Location>
    </ServiceParam>
  </ServiceParametersObject>
  <ConstantParameters>
    <ConstantParameter>
      <ServiceParameterName>constance</ServiceParameterName>
      <Description>constance</Description>
      <Location>HEAD</Location>
      <ConstantValue>constance</ConstantValue>
    </ConstantParameter>
  </ConstantParameters>
  <GroupId>08ae4aa0f95e4321849ee57f4e0b3077</GroupId>
  <SystemParameters>
    <SystemParameter>
      <ServiceParameterName>clientIp</ServiceParameterName>
      <Description>Client IP address</Description>
      <DemoValue>192.168.1.1</DemoValue>
      <Location>HEAD</Location>
      <ParameterName>CaClientIp</ParameterName>
    </SystemParameter>
  </SystemParameters>
  <RequestParametersObject>
    <RequestParam>
      <Required>OPTIONAL</Required>
      <MinValue>18</MinValue>
      <Description>Age</Description>
      <DemoValue>20</DemoValue>
      <ParameterType>NUMBER</ParameterType>
      <ApiParameterName>age</ApiParameterName>
      <DocShow>PUBLIC</DocShow>
      <DefaultValue>20</DefaultValue>
      <Location>HEAD</Location>
      <MaxValue>100</MaxValue>
      <DocOrder>0</DocOrder>
    </RequestParam>
    <RequestParam>
      <Required>OPTIONAL</Required>
      <Description>Gender</description>
      <DemoValue>boy</DemoValue>
      <ParameterType>STRING</ParameterType>
      <ApiParameterName>sex</ApiParameterName>
      <DocShow>PUBLIC</DocShow>
      <DefaultValue>boy</DefaultValue>
      <Location>QUERY</Location>
    </RequestParam>
  </RequestParametersObject>

```

```

        <EnumValue>boy,girl</EnumValue>
        <DocOrder>0</DocOrder>
    </RequestParam>
    <RequestParam>
        <Required>REQUIRED</Required>
        <MinValue>100000000</MinValue>
        <ParameterType>NUMBER</ParameterType>
        <ApiParameterName>userId</ApiParameterName>
        <DocShow>PUBLIC</DocShow>
        <Location>regionid</Location>
        <MaxValue>1000000000</MaxValue>
        <DocOrder>0</DocOrder>
    </RequestParam>
</RequestParametersObject>
<DeployedInfos>
    <DeployedInfo>
        <DeployedStatus>NONDEPLOYED</DeployedStatus>
        <StageName>TEST</StageName>
    </DeployedInfo>
    <DeployedInfo>
        <DeployedStatus>NONDEPLOYED</DeployedStatus>
        <StageName>RELEASE</StageName>
    </DeployedInfo>
</DeployedInfos>
<ServiceConfig>
    <ServiceProtocol>HTTP</ServiceProtocol>
    <ServiceTimeout>1000</ServiceTimeout>
    <ServiceAddress>http://www.customerdomain.com</ServiceAdd
ress>
    <ServicePath>/v3/getUserTest/[userId]</ServicePath>
    <ServiceHttpMethod>GET</ServiceHttpMethod>
    <Mock>FALSE</Mock>
</ServiceConfig>
<RequestId>D0FF585F-7966-40CF-BC60-75DB070B23D5</RequestId>
<RegionId>cn-qingdao</RegionId>
<RequestConfig>
    <RequestHttpMethod>GET</RequestHttpMethod>
    <RequestProtocol>HTTP</RequestProtocol>
    <RequestPath>/v3/getUserTest/[userId]</RequestPath>
</RequestConfig>
<Visibility>PUBLIC</Visibility>
<ParametersMapObject>
    <ServiceParameterMap>
        <ServiceParameterName>sex</ServiceParameterName>
        <RequestParameterName>sex</RequestParameterName>
    </ServiceParameterMap>
    <ServiceParameterMap>
        <ServiceParameterName>age</ServiceParameterName>
        <RequestParameterName>age</RequestParameterName>
    </ServiceParameterMap>
    <ServiceParameterMap>
        <ServiceParameterName>userId</ServiceParameterName>
        <RequestParameterName>userId</RequestParameterName>
    </ServiceParameterMap>
</ParametersMapObject>
<ErrorCodeSamples>
    <ErrorCodeSample>
        <Code>400</Code>
        <Message>Missing the parameter UserId</Message>
        <Description>The UserId parameter is missing from the
request</Description>
    </ErrorCodeSample>

```



```

</ErrorCodeSamples>
<ApiId>8affff6c8c4c6447abb035812e4d66b65</ApiId>
<AuthType>APP</AuthType>
<ResultType>HTML</ResultType>
<ResultSample>200</ResultSample>
<FailResultSample>400</FailResultSample>
<OpenIdConnectConfig>
  <publicKey>EB1837F8693CCED0BF750B3AD48467BEB569E780
A14591CF92</publicKey>
  <openIdApiType>IDTOKEN</openIdApiType>
  <publicKeyId>88483727556929326703309904351185815489</
publicKeyId>
</OpenIdConnectConfig>
</DescribeApiResponse>

```

- JSON format

```

{
  "RequestId": "D0FF585F-7966-40CF-BC60-75DB070B23D5",
  "RegionId": "cn-qingdao",
  "Description": "billingTest001",
  "ApiName": "billingTest001",
  "CreatedTime": "2016-07-01T09:18:20Z",
  "GroupName": "billingTest",
  "ModifiedTime": "2016-07-21T03:52:12Z",
  "ServiceParametersObject": {
    "ServiceParam": [
      {
        "ServiceParameterName": "headerParam",
        "Type": "String",
        "Location": "head"
      },
      {
        "ServiceParameterName": "queryparam",
        "Type": "String",
        "Location": "query"
      },
      {
        "ServiceParameterName": "NumberParam",
        "Type": "Number",
        "Location": "query"
      },
      {
        "ServiceParameterName": "type",
        "Type": "String",
        "Location": "path"
      },
      {
        "ServiceParameterName": "clientIp",
        "Type": "String",
        "Location": "head"
      },
      {
        "ServiceParameterName": "constantParam",
        "Type": "String",
        "Location": "query"
      }
    ]
  },
  "ConstantParameters": {
    "ConstantParameter": [
      {

```

```
        "ServiceParameterName": "constantParam",
        "Description": "constant",
        "Location": "QUERY",
        "ConstantValue": "constant"
      }
    ]
  },
  "GroupId": "4a3f3050b9c5469bb685bdd29e571be1",
  "SystemParameters": {
    "SystemParameter": [
      {
        "ServiceParameterName": "clientIp",
        "Description": "Client IP address",
        "DemoValue": "192.168.1.1",
        "Location": "HEAD",
        "ParameterName": "CaClientIp"
      }
    ]
  },
  "RequestParametersObject": {
    "RequestParam": [
      {
        "Required": "OPTIONAL",
        "Description": "head param",
        "DemoValue": "headparm",
        "ParameterType": "STRING",
        "ApiParameterName": "headerParam",
        "DocShow": "PUBLIC",
        "DefaultValue": "",
        "Location": "HEAD",
        "EnumValue": "head",
        "DocOrder": 0
      },
      {
        "Required": "REQUIRED",
        "ParameterType": "STRING",
        "ApiParameterName": "queryparam",
        "DocShow": "PUBLIC",
        "DefaultValue": "",
        "Location": "QUERY",
        "DocOrder": 0
      },
      {
        "Required": "OPTIONAL",
        "MinValue": 1,
        "Description": "number param",
        "DemoValue": "10",
        "ParameterType": "NUMBER",
        "ApiParameterName": "NumberParam",
        "DocShow": "PUBLIC",
        "DefaultValue": "10",
        "Location": "QUERY",
        "MaxValue": 100,
        "DocOrder": 0
      },
      {
        "Required": "REQUIRED",
        "ParameterType": "STRING",
        "ApiParameterName": "type",
        "DocShow": "PUBLIC",
        "Location": "PATH",
        "DocOrder": 0
      }
    ]
  }
}
```

```
    }
  ]
},
"DeployedInfos": {
  "DeployedInfo": [
    {
      "DeployedStatus": "NONDEPLOYED",
      "StageName": "TEST",
    },
    {
      "DeployedStatus": "DEPLOYED",
      "StageName": "RELEASE",
      "EffectiveVersion": "20160721115223375"
    }
  ]
},
"ServiceConfig": {
  "ServiceProtocol": "HTTP",
  "ServiceTimeout": 10000,
  "ServiceAddress": "http://120.55.69.157:8080",
  "ServicePath": "/web/cloudapi/[type]",
  "ServiceHttpMethod": "POST",
  "Mock": "CLOSED"
},
"RequestId": "415F037A-94C2-4100-B17A-F3C514CA1391",
"RegionId": "cn-qingdao",
"RequestConfig": {
  "RequestHttpMethod": "POST",
  "RequestProtocol": "HTTP",
  "PostBodyDescription": "fwefwef",
  "BodyFormat": "STREAM",
  "RequestPath": "/api/billing/test/[type]"
},
"Visibility": "PUBLIC",
"ParametersMapObject": {
  "ServiceParameterMap": [
    {
      "ServiceParameterName": "headerParam",
      "RequestParameterName": "headerParam"
    },
    {
      "ServiceParameterName": "queryparam",
      "RequestParameterName": "queryparam"
    },
    {
      "ServiceParameterName": "NumberParam",
      "RequestParameterName": "NumberParam"
    },
    {
      "ServiceParameterName": "type",
      "RequestParameterName": "type"
    }
  ]
},
"ErrorCodeSamples": {
  "ErrorCodeSample": [
    {
      "Code": "400",
      "Message": "Missing the parameter UserId",
      "Description": "The UserId parameter is missing from
the request"
    }
  ]
}
```

```
    ],  
    },  
    "ApiId": "e77fd9257b1d436a806fe23c649300a0",  
    "AuthType": "APP",  
    "ResultType": "JSON",  
    "ResultSample": "fwef",  
    "FailResultSample": "400",  
    "OpenIdConnectConfig": {  
        "publicKey": "EB1837F8693CCED0BF750B3AD48467BEB569E780  
A14591CF92",  
        "openIdApiType": "IDTOKEN",  
        "publicKeyId": "88483727556929326703309904351185815489"  
    }  
}
```

1.7.8 DescribeApiDoc

Description

You can call this operation to query documentation of a specified API.

- For API callers, the specified API must be a public or authorized private API that has been published to a runtime environment.
- When you call this operation as an API caller, the service information, parameter definitions, and other details of the API you specify are returned.
- When you call this operation as an API provider, the definition of the specified API running in the specified runtime environment is returned. The returned definition takes effect in the runtime environment, and may be different from the definition of the API you modify.
- Before you call this operation as an API provider, ensure that the API to be queried is a public one or that your application has been authorized to call the API, because authentication on API callers is required.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiDoc.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StageName	String	No	The name of the runtime environment. Valid values: • RELEASE. • TEST.

Name	Type	Required	Description
			If this parameter is not specified, the default value is release.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
RegionId	String	The region to which the API belongs.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
StageName	String	The name of the runtime environment. Valid values: • RELEASE. • TEST.
ApiId	String	The ID of the API.
ApiName	String	The API name.
Description	String	The description of the API.
Visibility	String	Indicates whether the API is public. Valid values: PUBLIC and PRIVATE.
AuthType	String	The security authentication method. Valid values: APP, ANONYMOUS, and APPOPENID, indicating respectively Alibaba Cloud application authentication, anonymous authentication, and third-party OpenID Connect account authentication.
ResultType	String	The response type.
ResultSample	String	The sample response.
FailResultSample	String	The sample response returned when the backend service fails.
ErrorCodeSamples	ErrorCodeSample	The sample error code returned by the backend service. For more information, see ApiAttributesType.md#ErrorCodeSamples .
RequestConfig	RequestConfig	The returned API frontend definition information. It is an array consisting of RequestConfig data.
RequestParameters	RequestParameter	The returned frontend input parameters in the API. It is an array consisting of RequestParameter data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApiDoc
&GroupId=0009db9c828549768a200320714b8930
&ApiId=3b81fd160f5645e097cc8855d75a1cf6
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiDocResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ014</RequestId>
  <RegionId>cn-qingdao</RegionId>
  <GroupId>0009db9c828549768a200320714b8930</GroupId>
  <GroupName>myGroup2</GroupName>
  <StageName>RELEASE</StageName>
  <ApiId>3b81fd160f5645e097cc8855d75a1cf6</ApiId>
  <ApiName>creatobject</ApiName>
  <Description>Create an object</Description>
  <Visibility>public</Visibility>
  <AuthType>APP</AuthType>
  <ResultType>application/json</ResultType>
  <ResultSample></ResultSample>
  <FailResultSample></FailResultSample>
  <ErrorCodeSamples>
    <ErrorCodeSample>
      <Code>400</Code>
      <Message>Missing the parameter UserId</Message>
      <Description>The UserId parameter is missing from the
request</Description>
    </ErrorCodeSample>
  </ErrorCodeSamples>
  <RequestConfig>
    <RequestProtocol>HTTP</RequestProtocol>
    <RequestHttpMethod>GET</RequestHttpMethod>
    <RequestPath>/mypath/creatobject</RequestPath>
    <BodyFormat>FORM</BodyFormat>
    <PostBodyDescription>Object</PostBodyDescription>
  </RequestConfig>
  <RequestParameters>
    <RequestParameter>
      <ApiParameterName>RequestKey1</ApiParameterName>
      <Location>QUERY</Location>
      <ParameterType>String</ParameterType>
      <Required>REQUIRED</Required>
      <DefaultValue></DefaultValue>
      <DemoValue>demo1</DemoValue>
      <MaxValue></MaxValue>
      <MinValue></MinValue>
      <MaxLength>100</MaxLength>
      <MinLength>3</MinLength>
      <RegularExpression></RegularExpression>
      <JsonScheme></JsonScheme>
      <EnumValue></EnumValue>
      <DocShow>PUBLIC</DocShow>
      <DocOrder>1</DocOrder>
      <Description>Desc1</Description>
```

```

        </RequestParamer>
        <RequestParamer>
            <ApiParameterName>RequestKey2</ApiParameterName>
            <Location>QUERY</Location>
            <ParameterType>Number</ParameterType>
            <Required>OPTIONAL</Required>
            <DefaultValue></DefaultValue>
            <DemoValue>12</DemoValue>
            <MaxValue>120</MaxValue>
            <MinValue>100</MinValue>
            <MaxLength></MaxLength>
            <MinLength></MinLength>
            <RegularExpression></RegularExpression>
            <JsonScheme></JsonScheme>
            <EnumValue></EnumValue>
            <DocShow>PUBLIC</DocShow>
            <DocOrder>2</DocOrder>
            <Description>Desc2</Description>
        </RequestParamer>
    </RequestParameters>
</DescribeApiDocResponse>

```

- JSON format

```

{
    "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ014",
    "RegionId": "cn-qingdao",
    "GroupId": "0009db9c828549768a200320714b8930",
    "GroupName": "myGroup2",
    "StageName": "RELEASE",
    "ApiId": "3b81fd160f5645e097cc8855d75a1cf6",
    "ApiName": "creatobject",
    "Description": "Create an object",
    "Visibility": "public",
    "AuthType": "APP",
    "ResultType": "application/json",
    "ResultSample": "200",
    "FailResultSample": "400",
    "ErrorCodeSamples": {
        "ErrorCodeSample": [
            {
                "Code": "400",
                "Message": "Missing the parameter UserId",
                "Description": "The UserId parameter is missing from
the request"
            }
        ]
    },
    "RequestConfig": {
        "RequestProtocol": "HTTP",
        "RequestHttpMethod": "GET",
        "RequestPath": "/mypath/creatobject",
        "BodyFormat": "FORM",
        "PostBodyDescription": "Object"
    },
    "RequestParameters": {
        "RequestParamer": [
            {
                "ApiParameterName": "RequestKey1",
                "Location": "QUERY",
                "ParameterType": "String",
                "Required": "REQUIRED",

```

```
        "DemoValue": "demo1",
        "MaxLength": "100",
        "MinLength": "3",
        "DocShow": "PUBLIC",
        "DocOrder": "1",
        "Description": "Desc1"
    },
    {
        "ApiParameterName": "RequestKey2",
        "Location": "QUERY",
        "ParameterType": "Number",
        "Required": "OPTIONAL",
        "DemoValue": "12",
        "MaxValue": "120",
        "MinValue": "100",
        "DocShow": "PUBLIC",
        "DocOrder": "2",
        "Description": "Desc2"
    }
  ]
}
```

1.7.9 DescribeApis

Description

You can call this operation to query the list of APIs.

- This operation is intended for API providers.
- The list of all APIs under the definition and their brief information are returned.
- Note: This API returns the most recently edited API definitions. These may be different from the definitions of those APIs currently published to the runtime environment.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApis.
GroupId	String	No	The ID of the API group.
ApiId	String	No	The ID of the API.
ApiName	String	No	The name of the API.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of returned results.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.
ApiSummarys	ApiSummary	The returned API definition. It is an array consisting of ApiSummary data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApis
&ApiName=weather
&pageSize=15
&pageNumber=3
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApisResponse>
  <ApiSummarys>
    <ApiSummary>
      <RegionId>cn-qingdao</RegionId>
      <GroupId>63be9002440b4778a61122f14c2b2bbb</GroupId>
      <GroupName>myGroup3</GroupName>
      <ApiId>c076144d7878437b8f82fb85890ce6a0</ApiId>
      <ApiName>Query the list of objects</ApiName>
      <Visibility>public</Visibility>
      <Description>Query the list of objects by pages</
Description>
      <CreateTime>2016-06-20T18:18:25Z</CreateTime>
      <ModifiedTime>2016-07-23T08:28:48Z</ModifiedTime>
    </ApiSummary>
    <ApiSummary>
      <RegionId>cn-qingdao</RegionId>
      <GroupId>1084f9034c744137901057206b39d2b6</GroupId>
      <GroupName>myGroup2</GroupName>
      <ApiId>5af418828f0344a3b588c0cc1331a3bc</ApiId>
      <ApiName>Create an object</ApiName>
      <Visibility>public</Visibility>
      <Description>Create an object</Description>
      <CreateTime>2016-05-20T18:18:25Z</CreateTime>
      <ModifiedTime>2016-07-23T08:28:48Z</ModifiedTime>
    </ApiSummary>
  </ApiSummarys>
  <PageNumber>3</PageNumber>
```

```
<PageSize>15</PageSize>
<TotalCount>32</TotalCount>
<RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ002</RequestId>
</DescribeApisResponse>
```

- JSON format

```
{
  "ApiSummarys": {
    "ApiSummary": [
      {
        "RegionId": "cn-qingdao",
        "GroupId": "63be9002440b4778a61122f14c2b2bbb",
        "GroupName": "myGroup3",
        "ApiId": "c076144d7878437b8f82fb85890ce6a0",
        "ApiName": "Query the list of objects",
        "Visibility": "public",
        "Description": "Query the list of objects by pages",
        "CreatedTime": "2016-06-20T18:18:25Z",
        "ModifiedTime": "2016-07-23T08:28:48Z"
      },
      {
        "RegionId": "cn-qingdao",
        "GroupId": "1084f9034c744137901057206b39d2b6",
        "GroupName": "myGroup2",
        "ApiId": "5af418828f0344a3b588c0cc1331a3bc",
        "ApiName": "Create an object",
        "Visibility": "public",
        "Description": "Create an object",
        "CreatedTime": "2016-05-20T18:18:25Z",
        "ModifiedTime": "2016-07-23T08:28:48Z"
      }
    ]
  },
  "PageNumber": "3",
  "PageSize": "15",
  "TotalCount": "32",
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ002"
}
```

1.7.10 DescribeApiHistory

Description

You can call this operation to query the details of a specified historical version of a specified API definition.

- This operation is intended for API providers.
- API Gateway records the time and definition of an API every time the API is published. You can use the version number obtained from other operations to query definition details at a certain publication.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiHistory.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StageName	String	Yes	The name of the runtime environment. Valid values: • RELEASE. • TEST.
HistoryVersion	String	Yes	The specified historical version number that you want to query. This can be obtained through the DescribeHistoryApis API.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
RegionId	String	The region to which the API belongs.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
StageName	String	The name of the runtime environment. Valid values: • RELEASE. • TEST.
ApiId	String	The ID of the API.
ApiName	String	The name of the API.
Description	String	The description of the API.
HistoryVersion	String	The version of the API definition.
Status	String	Indicates whether the API of the corresponding version is valid. Valid values: ENABLE (valid) and DISABLE (invalid).
Visibility	String	Indicates whether the API is public. Valid values: PUBLIC and PRIVATE.
AuthType	String	The security authentication method. Valid values: APP, ANONYMOUS, and APPOPENID, indicating respectively

Name	Type	Description
		Alibaba Cloud application authentication, anonymous authentication, and third-party OpenID Connect account authentication.
ResultType	String	The response type.
ResultSample	String	The sample response.
FailResultSample	String	The sample response returned when the backend service fails.
DeployedTime	String	The publishing time (UTC) of the API.
ErrorCodeSamples	ErrorCodeSample	The sample error code returned by the backend service. For more information, see ApiAttributesType.md#ErrorCodeSamples .
RequestConfig	RequestConfig	The returned API frontend definition information. It is an array consisting of RequestConfig data under a definition.
ServiceConfig	ServiceConfig	The returned information on the backend service called through the API. It is an array consisting of ServiceConfig data.
SystemParameters	SystemParameter	The returned system parameters input when a backend service is called through the API. It is an array consisting of SystemParameter data.
ConstantParameters	ConstantParameter	The returned constant parameters input when a backend service is called through the API. It is an array consisting of ConstantParameter data.
RequestParameters	RequestParameter	The returned frontend input parameters in the API. It is an array consisting of RequestParameter data.
ServiceParameters	ServiceParameter	The returned constant parameters input when a backend service is called through the API. It is an array consisting of ServiceParameter data.
ServiceParametersMap	ServiceParameterMap	The returned mappings between frontend and backend parameters in the API. It is an array consisting of ServiceParameterMap data.
OpenIdConnectConfig	OpenIdConnectConfig	The configuration items of the third-party OpenID Connect account authentication method. For more information, see ApiAttributesType.md#OpenIdConnectConfig .

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApiHistory
```

```
&GroupId=0009db9c828549768a200320714b8930
&ApiId=3b81fd160f5645e097cc8855d75a1cf6
&StageName=RELEASE
&HistoryVersion=20160314220059844
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiHistoryResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
  <RegionId>cn-qingdao</RegionId>
  <GroupId>0009db9c828549768a200320714b8930</GroupId>
  <GroupName>myGroup2</GroupName>
  <StageName>RELEASE</StageName>
  <ApiId>3b81fd160f5645e097cc8855d75a1cf6</ApiId>
  <ApiName>creatobject</ApiName>
  <Description>Create an object</Description>
  <HistoryVersion>20160314220059844</HistoryVersion>
  <Status>DISABLE</Status>
  <Visibility>public</Visibility>
  <AuthType>APP</AuthType>
  <ResultType>application/json</ResultType>
  <ResultSample></ResultSample>
  <FailResultSample></FailResultSample>
  <DeployedTime>2016-07-23T08:28:48Z</DeployedTime>
  <RequestConfig>
    <RequestProtocol>HTTP</RequestProtocol>
    <RequestHttpMethod>GET</RequestHttpMethod>
    <RequestPath>/mypath/creatobject</RequestPath>
    <BodyFormat>FORM</BodyFormat>
    <PostBodyDescription>Object</PostBodyDescription>
  </RequestConfig>
  <ServiceConfig>
    <ServiceProtocol>HTTP/HTTPS</ServiceProtocol>
    <ServiceAddress>http://api.a.com:8080</ServiceAddress>
    <ServiceHttpMethod>GET</ServiceHttpMethod>
    <ServicePath>/object/add</ServicePath>
    <ServiceTimeout>2000</ServiceTimeout>
  </ServiceConfig>
  <SystemParameters>
    <SystemParameter>
      <ParameterName>CaRequestId</ParameterName>
      <ServiceParameterName>RequestId</ServiceParameterName>
      <Location>HEAD</Location>
      <DemoValue>0A964636-F7A3-4F1A-92D7-135584A6397F</
DemoValue>
      <Description>Request ID</Description>
    </SystemParameter>
    <SystemParameter>
      <ParameterName>CaAppId</ParameterName>
      <ServiceParameterName>AppId</ServiceParameterName>
      <Location>QUERY</Location>
      <DemoValue>0A964636-F7A3-4F1A-92D7-135584A6398F</
DemoValue>
      <Description>Requester application ID</Description>
    </SystemParameter>
  </SystemParameters>
  <ConstantParameters>
    <ConstantParameter>
```

```
>      <ServiceParameterName>ConstantKey1</ServiceParameterName>
>      <ConstantValue>helloworld</ConstantValue>
>      <Location>QUERY</Location>
>      <Description>Desc</Description>
>    </ConstantParameter>
>  </ConstantParameters>
>  <RequestParameters>
>    <RequestParameter>
>      <ApiParameterName>RequestKey1</ApiParameterName>
>      <Location>QUERY</Location>
>      <ParameterType>String</ParameterType>
>      <Required>REQUIRED</Required>
>      <DefaultValue></DefaultValue>
>      <DemoValue>demo1</DemoValue>
>      <MaxValue></MaxValue>
>      <MinValue></MinValue>
>      <MaxLength>100</MaxLength>
>      <MinLength>3</MinLength>
>      <RegularExpression></RegularExpression>
>      <JsonScheme></JsonScheme>
>      <EnumValue></EnumValue>
>      <DocShow>PUBLIC</DocShow>
>      <DocOrder>1</DocOrder>
>      <Description>Desc1</Description>
>    </RequestParameter>
>    <RequestParameter>
>      <ApiParameterName>RequestKey2</ApiParameterName>
>      <Location>QUERY</Location>
>      <ParameterType>Number</ParameterType>
>      <Required>OPTIONAL</Required>
>      <DefaultValue></DefaultValue>
>      <DemoValue>12</DemoValue>
>      <MaxValue>120</MaxValue>
>      <MinValue>100</MinValue>
>      <MaxLength></MaxLength>
>      <MinLength></MinLength>
>      <RegularExpression></RegularExpression>
>      <JsonScheme></JsonScheme>
>      <EnumValue></EnumValue>
>      <DocShow>PUBLIC</DocShow>
>      <DocOrder>2</DocOrder>
>      <Description>Desc2</Description>
>    </RequestParameter>
>  </RequestParameters>
>  <ErrorCodeSamples>
>    <ErrorCodeSample>
>      <Code>400</Code>
>      <Message>Missing the parameter UserId</Message>
>      <Description>The UserId parameter is missing from the
request</Description>
>    </ErrorCodeSample>
>  </ErrorCodeSamples>
>  <ServiceParameters>
>    <ServiceParameter>
>      <ServiceParameterName>ServiceKey1</ServiceParameterName>
>      <Location>QUERY</Location>
>      <ParameterType>String</ParameterType>
>    </ServiceParameter>
>    <ServiceParameter>
>      <ServiceParameterName>ServiceKey2</ServiceParameterName>
>      <Location>QUERY</Location>
```

```

        <ParameterType>Number</ParameterType>
    </ServiceParameter>
</ServiceParameters>
<ServiceParametersMap>
    <ServiceParameterMap>
        <ServiceParameterName>RequestKey1</ServiceParameterName>
        <RequestParameterName>ServiceKey1</RequestParameterName>
    </ServiceParameterMap>
    <ServiceParameterMap>
        <ServiceParameterName>RequestKey2</ServiceParameterName>
        <RequestParameterName>ServiceKey2</RequestParameterName>
    </ServiceParameterMap>
</ServiceParametersMap>
<OpenIdConnectConfig>
    <publicKey>EB1837F8693CCED0BF750B3AD48467BEB569E780
A14591CF92</publicKey>
    <openIdApiType>IDTOKEN</openIdApiType>
    <publicKeyId>88483727556929326703309904351185815489</
publicKeyId>
</OpenIdConnectConfig>
</DescribeApiHistoryResponse>

```

- JSON format

```

{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004",
  "RegionId": "cn-qingdao",
  "GroupId": "0009db9c828549768a200320714b8930",
  "GroupName": "myGroup2",
  "StageName": "RELEASE",
  "ApiId": "3b81fd160f5645e097cc8855d75a1cf6",
  "ApiName": "creatobject",
  "Description": "Create an object",
  "HistoryVersion": "20160314220059844",
  "Status": "DISABLE",
  "Visibility": "public",
  "AuthType": "APP",
  "ResultType": "application/json",
  "ResultSample": "200",
  "FailResultSample": "400",
  "DeployedTime": "2016-07-23T08:28:48Z",
  "RequestConfig": {
    "RequestProtocol": "HTTP",
    "RequestHttpMethod": "GET",
    "RequestPath": "/mypath/creatobject",
    "BodyFormat": "FORM",
    "PostBodyDescription": "Object"
  },
  "ServiceConfig": {
    "ServiceProtocol": "HTTP/HTTPS",
    "ServiceAddress": "http://api.a.com:8080",
    "ServiceHttpMethod": "GET",
    "ServicePath": "/object/add",
    "ServiceTimeout": "2000"
  },
  "SystemParameters": {
    "SystemParameter": [
      {
        "ParameterName": "CaRequestId",
        "ServiceParameterName": "RequestId",
        "Location": "HEAD",
        "DemoValue": "0A964636-F7A3-4F1A-92D7-135584A6397F",

```

```
        "Description": "Request ID"
      },
      {
        "ParameterName": "CaAppId",
        "ServiceParameterName": "AppId",
        "Location": "QUERY",
        "DemoValue": "0A964636-F7A3-4F1A-92D7-135584A6398F",
        "Description": "Requester application ID"
      }
    ]
  },
  "ConstantParameters": {
    "ConstantParameter": {
      "ServiceParameterName": "ConstantKey1",
      "ConstantValue": "helloworld",
      "Location": "QUERY",
      "Description": "Desc"
    }
  },
  "RequestParameters": {
    "RequestParameter": [
      {
        "ApiParameterName": "RequestKey1",
        "Location": "QUERY",
        "ParameterType": "String",
        "Required": "REQUIRED",
        "DemoValue": "demo1",
        "MaxLength": "100",
        "MinLength": "3",
        "DocShow": "PUBLIC",
        "DocOrder": "1",
        "Description": "Desc1"
      },
      {
        "ApiParameterName": "RequestKey2",
        "Location": "QUERY",
        "ParameterType": "Number",
        "Required": "OPTIONAL",
        "DemoValue": "12",
        "MaxValue": "120",
        "MinValue": "100",
        "DocShow": "PUBLIC",
        "DocOrder": "2",
        "Description": "Desc2"
      }
    ]
  },
  "ErrorCodeSamples": {
    "ErrorCodeSample": [
      {
        "Code": "400",
        "Message": "Missing the parameter UserId",
        "Description": "The UserId parameter is missing from
the request"
      }
    ]
  },
  "ServiceParameters": {
    "ServiceParameter": [
      {
        "ServiceParameterName": "ServiceKey1",
        "Location": "QUERY",
```



```
        "ParameterType": "String"
      },
      {
        "ServiceParameterName": "ServiceKey2",
        "Location": "QUERY",
        "ParameterType": "Number"
      }
    ]
  },
  "ServiceParametersMap": {
    "ServiceParameterMap": [
      {
        "ServiceParameterName": "RequestKey1",
        "RequestParameterName": "ServiceKey1"
      },
      {
        "ServiceParameterName": "RequestKey2",
        "RequestParameterName": "ServiceKey2"
      }
    ]
  },
  "OpenIdConnectConfig": {
    "publicKey": "EB1837F8693CCED0BF750B3AD48467BEB569E780A14591CF92",
    "openIdApiType": "IDTOKEN",
    "publicKeyId": "88483727556929326703309904351185815489"
  }
}
```

1.7.11 DescribeApiHistories

Description

You can call this operation to query the list of historical versions of a specified API.

- This operation is intended for API providers. Only APIs which have been published have a historical version record.
- This operation allows you to obtain the API historical versions which can be used to call other APIs.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApisHistories.
GroupId	String	Yes	The ID of the API group.
ApiId	String	No	The ID of the API.
ApiName	String	No	The name of the API.
StageName	String	No	The name of the runtime environment. Valid values: • RELEASE.

Name	Type	Required	Description
			TEST.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of returned results.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.
ApiHisItems	ApiHisItem	The returned API information. It is an array consisting of ApiHisItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApiHistories
&ApiName=weather
&pageSize=15
&pageNumber=3
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiHistoriesResponse>
  <ApiHisItems>
    <ApiHisItem>
      <RegionId>cn-qingdao</RegionId>
      <GroupId>63be9002440b4778a61122f14c2b2bbb</GroupId>
      <GroupName>myGroup3</GroupName>
      <ApiId>c076144d7878437b8f82fb85890ce6a0</ApiId>
      <ApiName>Query the list of objects</ApiName>
      <StageName>release</StageName>
      <HistoryVersion>20160705104552292</HistoryVersion>
      <Status>DISABLE</Status>
      <Description>Query the list of objects by pages</
Description>
      <DeployedTime>2016-07-23T08:28:48Z</DeployedTime>
```

```
</ApiHisItem>
<ApiHisItem>
  <RegionId>cn-qingdao</RegionId>
  <GroupId>1084f9034c744137901057206b39d2b6</GroupId>
  <GroupName>myGroup2</GroupName>
  <ApiId>5af418828f0344a3b588c0cc1331a3bc</ApiId>
  <ApiName>Create an object</ApiName>
  <StageName>release</StageName>
  <HistoryVersion>20160705104552393</HistoryVersion>
  <Status>DISABLE</Status>
  <Description>Create an object</Description>
  <DeployedTime>2016-07-20T08:28:48Z</DeployedTime>
</ApiHisItem>
</ApiHisItems>
<PageNumber>3</PageNumber>
<PageSize>15</PageSize>
<TotalCount>32</TotalCount>
<RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ003</RequestId>
</DescribeApiHistoriesResponse>
```

- JSON format

```
{
  "ApiHisItems": {
    "ApiHisItem": [
      {
        "RegionId": "cn-qingdao",
        "GroupId": "63be9002440b4778a61122f14c2b2bbb",
        "GroupName": "myGroup3",
        "ApiId": "c076144d7878437b8f82fb85890ce6a0",
        "ApiName": "Query the list of objects",
        "StageName": "release",
        "HistoryVersion": "20160705104552292",
        "Status": "DISABLE",
        "Description": "Query the list of objects by pages",
        "DeployedTime": "2016-07-23T08:28:48Z"
      },
      {
        "RegionId": "cn-qingdao",
        "GroupId": "1084f9034c744137901057206b39d2b6",
        "GroupName": "myGroup2",
        "ApiId": "5af418828f0344a3b588c0cc1331a3bc",
        "ApiName": "Create an object",
        "StageName": "release",
        "HistoryVersion": "20160705104552393",
        "Status": "DISABLE",
        "Description": "Create an object",
        "DeployedTime": "2014-07-23T08:28:48Z",
      }
    ]
  },
  "PageNumber": 3,
  "PageSize": 15,
  "TotalCount": 32,
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ003"
```

```
}
```

1.7.12 DescribeDeployedApi

Description

You can call this operation to query the running definition of an API in a specified runtime environment.

- This operation is intended for API providers.
- This operation allows you to query the API definition that has been published to and is running in a specified environment. This definition may be different from the API definition being modified. A modified API definition can overwrite the definition running in a runtime environment only after the modified definition is published to the runtime environment.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeDeployedApi.
GroupId	String	Yes	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StageName	String	Yes	The name of the runtime environment. Valid values: • RELEASE. • TEST.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
RegionId	String	The region to which the API belongs.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
StageName	String	The name of the runtime environment. Valid values: • RELEASE. • TEST.
ApiId	String	The ID of the API.

Name	Type	Description
ApiName	String	The name of the API.
Description	String	The description of the API.
Visibility	String	Indicates whether the API is public. Valid values: PUBLIC and PRIVATE.
AuthType	String	The security authentication method. Valid values: APP, ANONYMOUS, and APPOPENID, indicating respectively Alibaba Cloud application authentication , anonymous authentication, and third-party OpenID Connect account authentication.
ResultType	String	The response type.
ResultSample	String	The sample response.
FailResultSample	String	The sample response returned when the backend service fails.
DeployedTime	String	The publishing time (UTC) of the API.
ErrorCodeSamples	ErrorCodeSample	The sample error code returned by the backend service. For more information, see ApiAttributesType.md#ErrorCodeSamples.
RequestConfig	RequestConfig	The returned API frontend definition information. It is an array consisting of RequestConfig data.
ServiceConfig	ServiceConfig	The returned information of the backend service called through the API. It is an array consisting of ServiceConfig data.
SystemParameters	SystemParameter	The returned system parameters input when a backend service is called through the API. It is an array consisting of SystemParameter data.
ConstantParameters	ConstantParameter	The returned constant parameters input when a backend service is called through the API. It is an array consisting of ConstantParameter data.
RequestParameters	RequestParameter	The returned frontend input parameters in the API. It is an array consisting of RequestParameter data.
ServiceParameters	ServiceParameter	The returned constant parameters input when a backend service is called through the API. It is an array consisting of ServiceParameter data.

Name	Type	Description
ServiceParametersMap	ServiceParameterMap	The returned mappings between frontend and backend parameters in the API. It is an array consisting of ServiceParameterMap data.
OpenIdConnectConfig	OpenIdConnectConfig	The configuration items of the third-party OpenID Connect account authentication method. For more information, see ApiAttributesType.md#OpenIdConnectConfig.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeDeployedApi
&GroupId=0009db9c828549768a200320714b8930
&ApiId=3b81fd160f5645e097cc8855d75a1cf6
&StageName=RELEASE
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeDeployedApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
  <RegionId>cn-qingdao</RegionId>
  <GroupId>0009db9c828549768a200320714b8930</GroupId>
  <GroupName>myGroup2</GroupName>
  <StageName>RELEASE</StageName>
  <ApiId>3b81fd160f5645e097cc8855d75a1cf6</ApiId>
  <ApiName>creatobject</ApiName>
  <Description>Create an object</Description>
  <Visibility>public</Visibility>
  <AuthType>APP</AuthType>
  <ResultType>application/json</ResultType>
  <ResultSample></ResultSample>
  <FailResultSample></FailResultSample>
  <DeployedTime>2016-07-23T08:28:48Z</DeployedTime>
  <RequestConfig>
    <RequestProtocol>HTTP</RequestProtocol>
    <RequestHttpMethod>GET</RequestHttpMethod>
    <RequestPath>/mypath/creatobject</RequestPath>
    <BodyFormat>FORM</BodyFormat>
    <PostBodyDescription>Object</PostBodyDescription>
  </RequestConfig>
  <ServiceConfig>
    <ServiceProtocol>HTTP/HTTPS</ServiceProtocol>
    <ServiceAddress>http://api.a.com:8080</ServiceAddress>
    <ServiceHttpMethod>GET</ServiceHttpMethod>
    <ServicePath>/object/add</ServicePath>
    <ServiceTimeout>2000</ServiceTimeout>
    <Mock>FALSE</Mock>
  </ServiceConfig>
  <SystemParameters>
```

```
<SystemParameter>
  <ParameterName>CaRequestId</ParameterName>
  <ServiceParameterName>RequestId</ServiceParameterName>
  <Location>HEAD</Location>
  <DemoValue>0A964636-F7A3-4F1A-92D7-135584A6397F</
DemoValue>
  <Description>Request ID</Description>
</SystemParameter>
<SystemParameter>
  <ParameterName>CaAppId</ParameterName>
  <ServiceParameterName>AppId</ServiceParameterName>
  <Location>regionid</Location>
  <DemoValue>0A964636-F7A3-4F1A-92D7-135584A6398F</
DemoValue>
  <Description>Requester application ID</Description>
</SystemParameter>
</SystemParameters>
<ConstantParameters>
  <ConstantParameter>
    <ServiceParameterName>ConstantKey1</ServiceParameterName>
    <ConstantValue>helloworld</ConstantValue>
    <Location>regionid</Location>
    <Description>Test</Description>
  </ConstantParameter>
</ConstantParameters>
<RequestParameters>
  <RequestParameter>
    <ApiParameterName>RequestKey1</ApiParameterName>
    <Location>regionid</Location>
    <ParameterType>String</ParameterType>
    <Required>REQUIRED</Required>
    <DefaultValue></DefaultValue>
    <DemoValue>demo1</DemoValue>
    <MaxValue></MaxValue>
    <MinValue></MinValue>
    <MaxLength>100</MaxLength>
    <MinLength>3</MinLength>
    <RegularExpression></RegularExpression>
    <JsonScheme></JsonScheme>
    <EnumValue></EnumValue>
    <DocShow>PUBLIC</DocShow>
    <DocOrder>1</DocOrder>
    <Description>Desc1</Description>
  </RequestParameter>
  <RequestParameter>
    <ApiParameterName>RequestKey2</ApiParameterName>
    <Location>QUERY</Location>
    <ParameterType>Number</ParameterType>
    <Required>OPTIONAL</Required>
    <DefaultValue></DefaultValue>
    <DemoValue>12</DemoValue>
    <MaxValue>120</MaxValue>
    <MinValue>100</MinValue>
    <MaxLength></MaxLength>
    <MinLength></MinLength>
    <RegularExpression></RegularExpression>
    <JsonScheme></JsonScheme>
    <EnumValue></EnumValue>
    <DocShow>PUBLIC</DocShow>
    <DocOrder>2</DocOrder>
    <Description>Desc2</Description>
```

```

        </RequestParamer>
    </RequestParameters>
    <ServiceParameters>
        <ServiceParameter>
            <ServiceParameterName>ServiceKey1</ServiceParameterName>
            <Location>QUERY</Location>
            <ParameterType>String</ParameterType>
        </ServiceParameter>
        <ServiceParameter>
            <ServiceParameterName>ServiceKey2</ServiceParameterName>
            <Location>QUERY</Location>
            <ParameterType>Number</ParameterType>
        </ServiceParameter>
    </ServiceParameters>
    <ServiceParametersMap>
        <ServiceParameterMap>
            <ServiceParameterName>RequestKey1</ServiceParameterName>
            <RequestParamerName>ServiceKey1</RequestParamerName>
        </ServiceParameterMap>
        <ServiceParameterMap>
            <ServiceParameterName>RequestKey2</ServiceParameterName>
            <RequestParamerName>ServiceKey2</RequestParamerName>
        </ServiceParameterMap>
    </ServiceParametersMap>
    <ErrorCodeSamples>
        <ErrorCodeSample>
            <Code>400</Code>
            <Message>Missing the parameter UserId</Message>
            <Description>The UserId parameter is missing from the
request</Description>
        </ErrorCodeSample>
    </ErrorCodeSamples>
    <OpenIdConnectConfig>
        <publicKey>EB1837F8693CCED0BF750B3AD48467BEB569E780
A14591CF92</publicKey>
        <openIdApiType>IDTOKEN</openIdApiType>
        <publicKeyId>88483727556929326703309904351185815489</
publicKeyId>
    </OpenIdConnectConfig>
</DescribeDeployedApiResponse>

```

- JSON format

```

{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004",
  "RegionId": "cn-qingdao",
  "GroupId": "0009db9c828549768a200320714b8930",
  "GroupName": "myGroup2",
  "StageName": "RELEASE",
  "ApiId": "3b81fd160f5645e097cc8855d75a1cf6",
  "ApiName": "creatobject",
  "Description": "Create an object",
  "Visibility": "public",
  "AuthType": "APP",
  "ResultType": "application/json",
  "DeployedTime": "2016-07-23T08:28:48Z",
  "RequestConfig": {
    "RequestProtocol": "HTTP",
    "RequestHttpMethod": "GET",
    "RequestPath": "/mypath/creatobject",
    "BodyFormat": "FORM",
    "PostBodyDescription": "Object"
  }
}

```



```
},
"ServiceConfig": {
  "ServiceProtocol": "HTTP/HTTPS",
  "ServiceAddress": "http://api.a.com:8080",
  "ServiceHttpMethod": "GET",
  "ServicePath": "/object/add",
  "ServiceTimeout": "2000",
  "Mock": "FALSE"
},
"SystemParameters": {
  "SystemParameter": [
    {
      "ParameterName": "CaRequestId",
      "ServiceParameterName": "C",
      "Location": "HEAD",
      "DemoValue": "0A964636-F7A3-4F1A-92D7-135584A6397F",
      "Description": "Request ID"
    },
    {
      "ParameterName": "CaAppId",
      "ServiceParameterName": "AppId",
      "Location": "QUERY",
      "DemoValue": "0A964636-F7A3-4F1A-92D7-135584A6398F",
      "Description": "Requester application ID"
    }
  ]
},
"ConstantParameters": {
  "ConstantParameter": {
    "ServiceParameterName": "ConstantKey1",
    "ConstantValue": "helloworld",
    "Location": "QUERY",
    "Description": "Desc"
  }
},
"RequestParameters": {
  "RequestParameter": [
    {
      "ApiParameterName": "RequestKey1",
      "Location": "QUERY",
      "ParameterType": "String",
      "Required": "REQUIRED",
      "DemoValue": "demo1",
      "MaxLength": "100",
      "MinLength": "3",
      "DocShow": "PUBLIC",
      "DocOrder": "1",
      "Description": "Desc1"
    },
    {
      "ApiParameterName": "RequestKey2",
      "Location": "QUERY",
      "ParameterType": "Number",
      "Required": "OPTIONAL",
      "DemoValue": "12",
      "MaxValue": "120",
      "MinValue": "100",
      "DocShow": "PUBLIC",
      "DocOrder": "2",
      "Description": "Desc2"
    }
  ]
}
```

```
    },
    "ServiceParameters": {
      "ServiceParameter": [
        {
          "ServiceParameterName": "ServiceKey1",
          "Location": "QUERY",
          "ParameterType": "String"
        },
        {
          "ServiceParameterName": "ServiceKey2",
          "Location": "QUERY",
          "ParameterType": "Number"
        }
      ]
    },
    "ServiceParametersMap": {
      "ServiceParameterMap": [
        {
          "ServiceParameterName": "RequestKey1",
          "RequestParameterName": "ServiceKey1"
        },
        {
          "ServiceParameterName": "RequestKey2",
          "RequestParameterName": "ServiceKey2"
        }
      ]
    },
    "ErrorCodeSamples": {
      "ErrorCodeSample": [
        {
          "Code": "400",
          "Message": "Missing the parameter UserId",
          "Description": "The UserId parameter is missing from
the request"
        }
      ]
    },
    "OpenIdConnectConfig": {
      "publicKey": "EB1837F8693CCED0BF750B3AD48467BEB569E780
A14591CF92",
      "openIdApiType": "IDTOKEN",
      "publicKeyId": "88483727556929326703309904351185815489"
    }
  }
}
```

1.7.13 DescribeDeployedApis

Description

You can call this operation to query the list of APIs that have been published to and are running in a specified runtime environment.

- This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeDeployedApis.
GroupId	String	No	The ID of the API group.
StageName	String	Yes	The name of the runtime environment. Valid values: - RELEASE. - TEST.
ApiId	String	No	The ID of the API.
ApiName	String	No	The name of the API.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of returned results.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.
DeployedApis	DeployedApiItem	The returned API information. It is an array consisting of DeployedApiItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeDeployedApis
&ApiName=weather
&pageSize=15
&pageNumber=3
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeDeployedApisResponse>
  <DeployedApis>
    <DeployedApiItem>
      <RegionId>cn-qingdao</RegionId>
      <GroupId>63be9002440b4778a61122f14c2b2bbb</GroupId>
      <GroupName>myGroup3</GroupName>
      <ApiId>c076144d7878437b8f82fb85890ce6a0</ApiId>
      <ApiName>Query the list of objects</ApiName>
      <StageName>release</StageName>
      <Visibility>public</Visibility>
      <Description>Query the list of objects by pages</
Description>
      <DeployedTime>2016-07-23T08:28:48Z</DeployedTime>
    </DeployedApiItem>
    <DeployedApiItem>
      <RegionId>cn-qingdao</RegionId>
      <GroupId>1084f9034c744137901057206b39d2b6</GroupId>
      <GroupName>myGroup2</GroupName>
      <ApiId>5af418828f0344a3b588c0cc1331a3bc</ApiId>
      <ApiName>Create an object</ApiName>
      <StageName>release</StageName>
      <Visibility>public</Visibility>
      <Description>Create an object</Description>
      <DeployedTime>2016-07-20T08:28:48Z</DeployedTime>
    </DeployedApiItem>
  </DeployedApis>
  <PageNumber>3</PageNumber>
  <PageSize>15</PageSize>
  <TotalCount>32</TotalCount>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ002</RequestId>
</DescribeDeployedApisResponse>
```

- JSON format

```
{
  "DeployedApis": {
    "DeployedApiItem": [
      {
        "RegionId": "cn-qingdao",
        "GroupId": "63be9002440b4778a61122f14c2b2bbb",
        "GroupName": "myGroup3",
        "ApiId": "c076144d7878437b8f82fb85890ce6a0",
        "ApiName": "Query the list of objects",
        "StageName": "release",
        "Visibility": "public",
        "Description": "Query the list of objects by pages",
        "DeployedTime": "2016-07-23T08:28:48Z"
      },
      {
        "RegionId": "cn-qingdao",
        "GroupId": "1084f9034c744137901057206b39d2b6",
        "GroupName": "myGroup2",
        "ApiId": "5af418828f0344a3b588c0cc1331a3bc",
        "ApiName": "Create an object",
        "StageName": "release",
        "Visibility": "public",
        "Description": "Create an object",
        "DeployedTime": "2016-07-20T08:28:48Z"
      }
    ]
  }
}
```

```
    ],  
    },  
    "PageNumber": 3,  
    "PageSize": 15,  
    "TotalCount": 32,  
    "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ002"  
  }  
}
```

1.7.14 DescribeApiErrorData

Description

You can call this operation to query the error information of a specified API.

- This operation is intended for API providers.
- This operation allows you to query call failure statistics for a specified API.
- Only statistics for API calls made in the release environment are collected by default.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiErrorData.
GroupId	String	No	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StartTime	String	Yes	The start time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.
EndTime	String	Yes	The end time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.

Response parameters

Name	Type	Description
ClientErrors	MonitorItem	The returned information about failed API calls (due to client errors). It is an array consisting of MonitorItem data. All calls for which an HTTP status code 4XX is returned are included in the call failure statistics as client-caused failures.
ServerErrors	MonitorItem	The returned information about failed API calls (due to server errors). It is an array consisting of MonitorItem data. All calls for which an HTTP status code 5XX was returned are included in the call failure statistics as server-caused failures.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApiErrorData
&GroupId=63be9002440b4778a61122f14c2b2bbb
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16
&StartTime=2016-07-23T08:28:48Z
&EndTime=2016-07-23T09:28:48Z
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiErrorDataResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ001</RequestId>
  <ClientErrors>
    <MonitorItem>
      <ItemTime>2016-07-28T08:20:00Z</ItemTime>
      <ItemValue>2</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:22:00Z</ItemTime>
      <ItemValue>5</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:24:00Z</ItemTime>
      <ItemValue>6</ItemValue>
    </MonitorItem>
  </ClientErrors>
  <ServerErrors>
    <MonitorItem>
      <ItemTime>2016-07-28T08:20:00Z</ItemTime>
      <ItemValue>0</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:22:00Z</ItemTime>
      <ItemValue>1</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:24:00Z</ItemTime>
      <ItemValue>1</ItemValue>
    </MonitorItem>
  </ServerErrors>
</DescribeApiErrorDataResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ001",
  "ClientErrors": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "2"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "5"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "6"
      }
    ]
  },
  "ServerErrors": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "0"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "1"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "1"
      }
    ]
  }
}
```

```
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "5"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "6"
      }
    ]
  },
  "ServerErrors": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "0"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "1"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "1"
      }
    ]
  }
}
```

1.7.15 DescribeApiLatencyData

Description

You can call this operation to query the latency metrics in milliseconds for a specified API.

- This operation is intended for API providers.
- This operation allows you to query the statistics on the latency data for a specified API.
- Only statistics for API calls made in the release environment are collected by default.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiLatencyData.
GroupId	String	No	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StartTime	String	Yes	The start time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.
EndTime	String	Yes	The end time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.

Response parameters

Name	Type	Description
CallLatencys	MonitorItem	The returned information about API call latency. It is an array consisting of MonitorItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApiLatencyData
&GroupId=63be9002440b4778a61122f14c2b2bbb
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16
&StartTime=2016-07-23T08:28:48Z
&EndTime=2016-07-23T09:28:48Z
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiLatencyDataResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ001</RequestId>
  <CallLatencys>
    <MonitorItem>
      <ItemTime>2016-07-28T08:20:00Z</ItemTime>
      <ItemValue>15</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:22:00Z</ItemTime>
      <ItemValue>30</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:24:00Z</ItemTime>
      <ItemValue>24</ItemValue>
    </MonitorItem>
  </CallLatencys>
</DescribeApiLatencyDataResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ001",
  "CallLatencys": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "15"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "30"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
```



```
    "ItemValue": "24"  
  }  
]  
}
```

1.7.16 DescribeApiQpsData

Description

You can call this operation to query the QPS information of a specified API.

- This operation is intended for API providers.
- This operation allows you to query QPS statistics for a specified API.
- Only statistics for API calls made in the release environment are collected by default.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiQpsData.
GroupId	String	No	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StartTime	String	Yes	The start time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.
EndTime	String	Yes	The end time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.

Response parameters

Name	Type	Description
CallSuccesses	MonitorItem	The returned information about successful API calls. It is an array consisting of MonitorItem data.
CallFails	MonitorItem	The returned information about failed API calls. It is an array consisting of MonitorItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApiQpsData  
&GroupId=63be9002440b4778a61122f14c2b2bbb  
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16  
&StartTime=2016-07-23T08:28:48Z  
&EndTime=2016-07-23T09:28:48Z
```

&<Common request parameters>

Sample responses

- XML format

```
<DescribeApiQpsDataResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ001</RequestId>
  <CallSuccesses>
    <MonitorItem>
      <ItemTime>2016-07-28T08:20:00Z</ItemTime>
      <ItemValue>670</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:22:00Z</ItemTime>
      <ItemValue>770</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:24:00Z</ItemTime>
      <ItemValue>650</ItemValue>
    </MonitorItem>
  </CallSuccesses>
  <CallFails>
    <MonitorItem>
      <ItemTime>2016-07-28T08:20:00Z</ItemTime>
      <ItemValue>0</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:22:00Z</ItemTime>
      <ItemValue>0</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:24:00Z</ItemTime>
      <ItemValue>1</ItemValue>
    </MonitorItem>
  </CallFails>
</DescribeApiQpsDataResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ001",
  "CallSuccesses": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "670"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "770"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "650"
      }
    ]
  },
  "CallFails": {
    "MonitorItem": [
```

```
{
  "ItemTime": "2016-07-28T08:20:00Z",
  "ItemValue": "0"
},
{
  "ItemTime": "2016-07-28T08:22:00Z",
  "ItemValue": "0"
},
{
  "ItemTime": "2016-07-28T08:24:00Z",
  "ItemValue": "1"
}
]
```

1.7.17 DescribeApiTrafficData

Description

You can call this operation to query the traffic information of a specified API.

- This operation is intended for API providers.
- This operation allows you to query data throttling statistics for a specified API.
- Only statistics for API calls made in the release environment are collected by default.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApiTrafficData.
GroupId	String	No	The ID of the API group.
ApiId	String	Yes	The ID of the API.
StartTime	String	Yes	The start time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.
EndTime	String	Yes	The end time. It is in the UTC format of YYYY-MM-DDThh:mmZ, as specified in the ISO 8601 standard.

Response parameters

Name	Type	Description
CallUploads	MonitorItem	The returned uplink traffic data of API calls. It is an array consisting of MonitorItem data.
CallDownloads	MonitorItem	The returned downlink traffic data of API calls. It is an array consisting of MonitorItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApiTrafficData
&GroupId=63be9002440b4778a61122f14c2b2bbb
&ApiId=d6f679aeb3be4b91b3688e887ca1fe16
&StartTime=2016-07-23T08:28:48Z
&EndTime=2016-07-23T09:28:48Z
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApiTrafficDataResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ001</RequestId>
  <CallUploads>
    <MonitorItem>
      <ItemTime>2016-07-28T08:20:00Z</ItemTime>
      <ItemValue>670</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:22:00Z</ItemTime>
      <ItemValue>770</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:24:00Z</ItemTime>
      <ItemValue>650</ItemValue>
    </MonitorItem>
  </CallUploads>
  <CallDownloads>
    <MonitorItem>
      <ItemTime>2016-07-28T08:20:00Z</ItemTime>
      <ItemValue>0</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:22:00Z</ItemTime>
      <ItemValue>0</ItemValue>
    </MonitorItem>
    <MonitorItem>
      <ItemTime>2016-07-28T08:24:00Z</ItemTime>
      <ItemValue>1</ItemValue>
    </MonitorItem>
  </CallDownloads>
</DescribeApiTrafficDataResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ001",
  "CallUploads": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "1670"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "770"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "650"
      }
    ]
  },
  "CallDownloads": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "0"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "0"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "1"
      }
    ]
  }
}
```

```
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "1770"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "1650"
      }
    ]
  },
  "CallDownloads": {
    "MonitorItem": [
      {
        "ItemTime": "2016-07-28T08:20:00Z",
        "ItemValue": "1650"
      },
      {
        "ItemTime": "2016-07-28T08:22:00Z",
        "ItemValue": "1670"
      },
      {
        "ItemTime": "2016-07-28T08:24:00Z",
        "ItemValue": "1770"
      }
    ]
  }
}
```

1.8 Throttling operations

1.8.1 CreateTrafficControl

Description

You can call this operation to create a custom throttling policy.

- This operation is intended for API providers.
- Throttling policies must be bound to APIs to take effect. After a policy is bound to an API, it goes into effect on that API immediately.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to CreateTrafficControl.
TrafficControlName	String	Yes	The throttling policy name. It must be 4 to 50 characters in length and can contain uppercase and lowercase letters, numbers, and underscores (_). It must start with a letter or number.

Name	Type	Required	Description
TrafficControlUnit	String	Yes	The unit to be used in the throttling policy. Valid values: • MINUTE. • HOUR. • DAY.
ApiDefault	Integer	Yes	The default throttling value for each API.
UserDefault	Integer	No	The default throttling value for each user.
AppDefault	Integer	No	The default throttling value for each application.
Description	String	No	The description of the throttling policy.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TrafficControlId	String	The unique ID of the specified throttling policy.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=CreateTrafficControl
&TrafficControlName=throttling test
&TrafficControlUnit=MINUTE
&ApiDefault=10000
&UserDefault=10000
&AppDefault=10000
&Description=throttling test description
&<Common request parameters>
```

Sample responses

- XML format

```
<CreateTrafficControlResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
  <TrafficControlId>tf123456</TrafficControlId>
</CreateTrafficControlResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004",
  "TrafficControlId": "tf123456"
```

```
}
```

1.8.2 ModifyTrafficControl

Description

You can call this operation to modify the settings of custom throttling policies.

- This operation is intended for API providers.
- The modifications take effect on the bound APIs instantly.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to ModifyTrafficControl.
TrafficControlId	String	Yes	The ID of a specified throttling policy.
TrafficControlName	String	No	The throttling policy name. It must be 4 to 50 characters in length and can contain uppercase and lowercase letters, numbers, and underscores (_). It must start with a letter or number.
TrafficControlUnit	String	No	The unit to be used in the throttling policy. Valid values: • MINUTE. • HOUR. • DAY.
ApiDefault	Integer	No	The default throttling value for each API.
UserDefault	Integer	No	The default throttling value for each user.
AppDefault	Integer	No	The default throttling value for each application.
Description	String	No	The description of the throttling policy.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=ModifyTrafficControl
&TrafficControlId=tf123456
&TrafficControlName=throttling test
&TrafficControlUnit=MINUTE
&ApiDefault=10000
&UserDefault=10000
&AppDefault=10000
&Description=throttling test description
&<Common request parameters>
```

Sample responses

- XML format

```
<ModifyTrafficControlResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
</ModifyTrafficControlResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004",
}
```

1.8.3 DeleteTrafficControl

Description

You can call this operation to delete a custom throttling policy and the special throttling policies under the policy.

- This operation is intended for API providers.
- If the throttling policy you want to delete is bound to APIs, you need to unbind the policy first. Otherwise, an error is reported when you delete the policy.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeleteTrafficControl.
TrafficControlId	String	Yes	The ID of a specified throttling policy.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DeleteTrafficControl
&TrafficControlId=tf123456
&<Common request parameters>
```

Sample responses

- XML format

```
<DeleteTrafficControlResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
</DeleteTrafficControlResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004",
}
```

1.8.4 SetTrafficControlApis

Description

You can call this operation to bind a specific throttling policy to APIs.

- This operation is intended for API providers.
- This API allows you to bind a specific throttling policy to up to 100 APIs at a time.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to SetTrafficControlApis.
TrafficControlId	String	Yes	The ID of the throttling policy that you want to bind to APIs.
GroupId	String	Yes	The ID of the API group that contains the APIs you want to bind a throttling policy to.

Name	Type	Required	Description
ApiIds	String	Yes	The IDs of the API to which a throttling policy is bound. Separate multiple API IDs with commas (,). A maximum of 100 API IDs can be entered.
StageName	String	Yes	The name of the runtime environment. Valid values: - RELEASE - TEST

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=SetTrafficControlApis
&TrafficControlId=dd05f1c54d6749eda95f9fa6d491449a
&GroupId=0009db9c828549768a200320714b8930
&ApiIds=3b81fd160f5645e097cc8855d75a1cf6,46fbb52840d146f186e3
8e8e70fc8c12
&StageName=test
&<Common request parameters>
```

Sample responses

- XML format

```
<SetTrafficControlApisResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
</SetTrafficControlApisResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004"
}
```

1.8.5 RemoveTrafficControlApis

Description

You can call this operation to unbind a specified throttling policy from APIs.

- This operation is intended for API providers.

- This API allows you to unbind a specified throttling policy from up to 100 APIs at a time.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to RemoveTrafficControlApis.
TrafficControlId	String	Yes	The ID of the throttling policy that you want to unbind from APIs.
GroupId	String	Yes	The ID of the API group containing the APIs from which you want to unbind a specified throttling policy.
Apids	String	No	The IDs of the APIs from which you want to unbind a specified throttling policy. • If this parameter is not specified, the throttling policy is unbound from all the APIs in the specified environment of the API group. • Separate multiple API IDs with commas (.). A maximum of 100 API IDs can be entered.
StageName	String	Yes	The name of the runtime environment. Valid values: • RELEASE • TEST

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=RemoveTrafficControlApis
&TrafficControlId=dd05f1c54d6749eda95f9fa6d491449a
&GroupId=0009db9c828549768a200320714b8930
&StageName=test
&<Common request parameters>
```

Sample responses

- XML format

```
<RemoveTrafficControlApisResponse>  
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>  
</RemoveTrafficControlApisResponse>
```

- JSON format

```
{  
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004"  
}
```

1.8.6 DescribeApisByTrafficControl

Description

You can call this operation to query the APIs to which a specified throttling policy is bound.

- This operation is intended for API providers.
- You can specify PageNumber to obtain the result on the specified page.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApisByTrafficControl.
TrafficControlId	String	Yes	The ID of the throttling policy that you want to query.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of rows.
PageSize	Integer	The specified number of rows returned per page.
PageNumber	Integer	The specified page number.
ApiInfos	ApiInfo	The returned API information. It is an array consisting of ApiInfo data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApisByTrafficControl
&TrafficControlId=dd05f1c54d6749eda95f9fa6d491449a
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeApisByTrafficControlResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
  <TotalCount>20</TotalCount>
  <PageSize>10</PageSize>
  <PageNumber>1</PageNumber>
  <ApiInfos>
    <ApiInfo>
      <RegionId>cn-qingdao</RegionId>
      <GroupId>0009db9c828549768a200320714b8930</GroupId>

      <GroupName>mygroup</GroupName>
      <StageName>test</StageName>
      <ApiId>3b81fd160f5645e097cc8855d75a1cf6</ApiId>
      <ApiName>testapi</ApiName>
      <Description>Description</Description>
      <Visibility>public</Visibility>
      <BoundTime>2016-07-23T08:28:48Z</BoundTime>
    </ApiInfo>
  </ApiInfos>
</DescribeApisByTrafficControlResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004",
  "TotalCount": "20",
  "PageSize": "10",
  "PageNumber": "1",
  "ApiInfos": {
    "ApiInfo": [
      {
        "RegionId": "cn-qingdao",
        "GroupId": "0009db9c828549768a200320714b8930",
        "GroupName": "mygroup",
        "StageName": "test",
        "ApiId": "3b81fd160f5645e097cc8855d75a1cf6",
        "ApiName": "testapi",
        "Description": "Description",
        "Visibility": "public",
        "BoundTime": "2016-07-23T08:28:48Z"
      }
    ]
  }
}
```

```
}
```

1.8.7 DescribeTrafficControls

Description

You can call this operation to query custom throttling policies and their details.

- This operation is intended for API providers.
- This API can be used to query all existing throttling policies (including special throttling policies) and their details.
- You can specify query conditions. For example, you can query the throttling policies bound to a specified API or in a specified environment.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeTrafficControls.
TrafficControlId	String	No	The ID of the throttling policy.
GroupId	String	No	The specified group ID. This parameter must be specified together with ApiId and StageName.
ApiId	String	No	The specified API ID. This parameter must be specified together with GroupId and StageName.
StageName	String	No	The environment name. This parameter must be specified together with GroupId and ApiId. Valid values: • RELEASE • TEST
TrafficControlName	String	No	The name of the throttling policy.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.
TrafficControls	TrafficControl	The returned throttling policy information. It is an array consisting of TrafficControl data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeTrafficControls
&TrafficControlId=tf123456
&TrafficControlName=throttling test
&GroupId=0009db9c828549768a200320714b8930
&ApiId=3b81fd160f5645e097cc8855d75a1cf6
&StageName=RELEASE
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeTrafficControlsResponse>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <PageNumber>1</PageNumber>
  <RequestId>93D91A99-F093-4596-87BA-3C4FBFD3FD8A</RequestId>
  <TrafficControls>
    <TrafficControl>
      <TrafficControlId>cfed6c970d45481dbe136d6b5ac68c41</TrafficControlId>
      <ApiDefault>20000</ApiDefault>
      <TrafficControlUnit>Minute</TrafficControlUnit>
      <TrafficControlName>wulingtestq1</TrafficControlName>
      <ModifiedTime>2016-01-27T10:34:38Z</ModifiedTime>
      <UserDefault>15000</UserDefault>
      <AppDefault>8000</AppDefault>
      <Description>test</Description>
      <CreateTime>2016-01-27T10:19:39Z</CreateTime>
      <SpecialPolicies>
        <SpecialPolicy>
          <SpecialType>User</SpecialType>
          <Specials>
            <Special>
              <TrafficValue>100</TrafficValue>
```

```

SpecialKey>
    <SpecialKey>test_wg@aliyun.com</
    </Special>
    </Specials>
  </SpecialPolicy>
  <SpecialPolicy>
    <SpecialType>App</SpecialType>
    <Specials>
      <Special>
        <TrafficValue>100</TrafficValue>
        <SpecialKey>12345678</SpecialKey>
      </Special>
    </Specials>
  </SpecialPolicy>
</SpecialPolicies>
</TrafficControl>
</TrafficControls>
</DescribeTrafficControlsResponse>

```

- JSON format

```

{
  "TotalCount": 1,
  "PageSize": 10,
  "PageNumber": 1,
  "RequestId": "93D91A99-F093-4596-87BA-3C4FBFD3FD8A",
  "TrafficControls": {
    "TrafficControl": [
      {
        "TrafficControlId": "cfed6c970d45481dbe136d6b5ac68c
41",
        "ApiDefault": 20000,
        "TrafficControlUnit": "Minute",
        "TrafficControlName": "wulingtestq1",
        "ModifiedTime": "2016-01-27T10:34:38Z",
        "UserDefault": 15000,
        "AppDefault": 8000,
        "Description": "test",
        "CreateTime": "2016-01-27T10:19:39Z",
        "SpecialPolicies": {
          "SpecialPolicy": [
            {
              "SpecialType": "User",
              "Specials": {
                "Special": [
                  {
                    "TrafficValue": 100,
                    "SpecialKey": "test_wg@
aliyun.com"
                  }
                ]
              }
            },
            {
              "SpecialType": "App",
              "Specials": {
                "Special": [
                  {
                    "TrafficValue": 100,
                    "SpecialKey": "12345678"
                  }
                ]
              }
            }
          ]
        }
      }
    ]
  }
}

```



```
}  
}  
]  
}  
}  
]  
}  
}
```

1.8.8 DescribeTrafficControlsByApi

Description

You can call this operation to query the throttling policies bound to a specific API.

- This operation is intended for API providers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeTrafficControlsByApi.
GroupId	String	Yes	The ID of the API group to which the specified API belongs.
ApiId	String	Yes	The ID of the API that you want to query.
StageName	String	Yes	The name of the runtime environment. Valid values: - RELEASE - TEST

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TrafficControlItems	TrafficControlItem	The returned throttling policy information. It is an array consisting of TrafficControlItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeTrafficControlByApi  
&GroupId=0009db9c828549768a200320714b8930  
&ApiId=3b81fd160f5645e097cc8855d75a1cf6  
&StageName=test
```

&<Common request parameters>

Sample responses

- XML format

```
<DescribeTrafficControlByApiResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ004</RequestId>
  <TrafficControlItems>
    <TrafficControlItem>
      <TrafficControlId>dd05f1c54d6749eda95f9fa6d491449a</
TrafficControlId>
      <TrafficControlName>mysecret</TrafficControlName>
      <BoundTime>2016-07-23T08:28:48Z</BoundTime>
    </TrafficControlItem>
  </TrafficControlItems>
</DescribeTrafficControlByApiResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ004",
  "TrafficControlItems": {
    "TrafficControlItem": [
      {
        "TrafficControlId": "dd05f1c54d6749eda95f9fa6d491449a",
        "TrafficControlName": "mysecret",
        "BoundTime": "2016-07-23T08:28:48Z"
      }
    ]
  }
}
```

1.9 App management operations

1.9.1 CreateApp

Description

You can call this operation to create an application. You must create an application before calling a third-party API because the application is used as an identifier when calling the third-party API.

- This operation is intended for API callers.
- Each application has a key-secret pair which is used for identity verification when calling an API .
- An application must be granted the permission to call an API.
- Each application has only one key-secret pair which can be reset if it is leaked.
- A maximum of 10 applications can be created for each Apsara Stack tenant account.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to CreateApp.
AppName	String	Yes	The application name, which is globally unique. We recommend that you add a special identifier to ensure the name is unique. The name must be 4 to 15 characters in length. It must start with a letter and can contain letters, numbers, and underscores (_).
Description	String	No	The API description, which cannot exceed 180 characters.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
AppId	Long	The application ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=CreateApp
&AppName=CreateAppTest
&Description=test
&<Common request parameters>
```

Sample responses

- XML format

```
<CreateAppResponse>
  <AppId>20112314518278</AppId>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
</CreateAppResponse>
```

- JSON format

```
{
  "AppId": 20112314518278,
  "RequestId": "BA20890E-75C7-41BC-9C8B-73276B58F550"
}
```

1.9.2 ModifyApp

Description

You can call this operation to modify the basic information of a specific application.

- This operation is intended for API callers.
- AppName or Description can be modified. If these parameters are not specified, no modifications are made and the operation will directly return a successful response.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to ModifyApp.
AppId	Long	Yes	The application ID.
AppName	String	No	The application name, which is globally unique. We recommend that you add a special identifier to ensure the name is unique. The name must be 4 to 15 characters in length. It must start with a letter and can contain letters, numbers, and underscores (_). This parameter is optional.
Description	String	No	The API description, which cannot exceed 180 characters. This parameter is optional.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=ModifyApp
&AppId=20112314518278
&Description=modidyTest
&<Common request parameters>
```

Sample responses

- XML format

```
<ModifyAppResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
</ModifyAppResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ015"
```

```
}
```

1.9.3 ResetAppSecret

Description

You can call this operation to reset the secret of a specific application.

- This operation is intended for API callers.
- A new secret is automatically generated after you have called this operation. This secret cannot be customized.
- The results returned by this operation do not contain the application secret. You can obtain the secret by calling DescribeAppSecurity.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to ResetAppSecret.
AppKey	String	Yes	The application key that is used for calling an API.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=ResetAppSecret
&AppKey=60030986
&<Common request parameters>
```

Sample responses

- XML format

```
<ResetAppSecretResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
</ResetAppSecretResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ015"
```

```
}
```

1.9.4 DescribeAppAttributes

Description

You can call this operation to query applications and their basic information.

- This operation is intended for API callers.
- The AppId parameter is optional in requests.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeAppAttributes.
AppId	Long	No	The application ID.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.
Apps	AppAttribute	The returned application information. It is an array consisting of AppAttribute data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeAppAttributes
&AppId=20112314518278
&pageSize=10
&pageNumber=1
```

<Common request parameters>

Sample responses

- XML format

```
<DescribeAppAttributesResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <PageNumber>1</PageNumber>
  <Apps>
    <AppAttribute>
      <AppId>20112314518278</AppId>
      <AppName>CreateApptest</AppName>
      <Description>APP test</Description>
      <CreatedTime>2016-07-31T04:10:19Z</CreatedTime>
      <ModifiedTime>2016-07-31T04:10:19Z</ModifiedTime>
    </AppAttribute>
  </Apps>
</DescribeAppAttributesResponse>
```

- JSON format

```
{
  "TotalCount":1,
  "PageSize":10,
  "PageNumber":1,
  "RequestId":"8883AC74-259D-4C0B-99FC-0B7F9A588B2F",
  "Apps":
  {
    "AppAttribute":
    [
      {
        "AppId":20112314518278,
        "AppName":"CreateApptest",
        "Description":"APP test",
        "CreatedTime":"2016-07-31T04:10:19Z",
        "ModifiedTime":"2016-07-31T04:10:19Z"
      }
    ]
  }
}
```

1.9.5 DescribeAppSecurity

Description

You can call this operation to query the key of a specified application. The key is used for authentication when you call an API.

This operation is intended for API callers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeAppSecurity.
AppId	Long	Yes	The application ID.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
AppKey	String	The application key.
AppSecret	String	The application secret.
CreatedTime	String	The creation time (UTC) of the key, which is the same as the application creation time.
ModifiedTime	String	The modification time (UTC) of the key.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeAppSecurity
&AppId=20112314518278
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeAppSecurityResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
  <AppKey>60030986</AppKey>
  <AppSecret>c1ae97aaa7e45f21d10824bc44678fee</AppSecret>
  <CreatedTime>2016-07-31T04:10:19Z</CreatedTime>
  <ModifiedTime>2016-07-31T04:10:19Z</ModifiedTime>
</DescribeAppSecurityResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ015",
  "AppKey": "60030986",
  "AppSecret": "c1ae97aaa7e45f21d10824bc44678fee",
  "CreatedTime": "2016-07-31T04:10:19Z",
  "ModifiedTime": "2016-07-31T04:10:19Z"
```



```
}
```

1.9.6 DeleteApp

Description

You can call this operation to delete a specified application.

- This operation is intended for API callers.
- After deletion, the application and its API authorization cannot be restored.
- The QPS limit on this operation is 50 per user.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DeleteApp.
AppId	Long	Yes	The application ID.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DeleteApp
&AppId=20112314518278
&<Common request parameters>
```

Sample responses

- XML format

```
<DeleteAppResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
</DeleteAppResponse>
```

- JSON format

```
{
  "RequestId": "CEF72CEB-54B6-4AE8-B225-F876FF7BZ015"
```

```
}
```

1.10 Authorization operations

1.10.1 DescribeApps

Description

You can call this operation to query which applications you are able to grant permissions to. You can then grant permissions based on the obtained application information.

- This operation is intended for API providers.
- API providers can use the application IDs or their Apsara Stack tenant accounts to query application information.
- Each provider can call this operation for a maximum of 200 times every day in a region.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeApps.
AppId	Long	No	The application ID.
AppOwner	String	No	The Apsara Stack tenant account ID of the application owner.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.

Name	Type	Description
Apps	ApplItem	The returned application information. It is an array consisting of ApplItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeApps
&AppId=20112314518278
&pageSize=10
&pageNumber=1
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeAppsResponse>
  <RequestId>CEF72CEB-54B6-4AE8-B225-F876FF7BZ015</RequestId>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <PageNumber>1</PageNumber>
  <Apps>
    <AppItem>
      <AppId>20112314518278</AppId>
      <AppName>CreateApptest</AppName>
      <Description>APP test</Description>
    </AppItem>
  </Apps>
</DescribeAppsResponse>
```

- JSON format

```
{
  "TotalCount":1,
  "PageSize":10,
  "PageNumber":1,
  "RequestId":"8883AC74-259D-4C0B-99FC-0B7F9A588B2F",
  "Apps":
  {
    "AppItem":
    [
      {
        "AppId":20112314518278,
        "AppName":"CreateApptest",
        "Description":"APP test"
      }
    ]
  }
}
```

```
}
```

1.10.2 DescribeAuthorizedApis

Description

You can call this operation to query the APIs that a specified application can call.

- This operation is intended for API callers.
- The specified application can call all APIs included in the responses.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeAuthorizedApis.
AppId	Long	Yes	The application ID, which is generated by the system and globally unique.
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of rows.
PageSize	Integer	The specified number of rows returned per page.
PageNumber	Integer	The specified page number.
AuthorizedApis	AuthorizedApi	The authorized API set.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=DescribeAuthorizedApis
&AppId = 2386789
```

<Common request parameters>

Sample responses

- XML format

```
<DescribeAuthorizedApisResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>2</TotalCount>
  <PageSize>10</PageSize>
  <RequestId>D6E46F10-F26C-4AA0-BB69-FE2743D9AE62</RequestId>
  <AuthorizedApis>
    <AuthorizedApi>
      <RegionId>cn-hangzhou</RegionId>
      <GroupId>523e8dc7bbe04613b5b1d726c2a7889d</GroupId>
      <GroupName>Weather</GroupName>
      <StageName>RELEASE</StageName>
      <Operator>PROVIDER</Operator>
      <ApiId>baacc592e63a4cb6a41920d9d3f91f38</ApiId>
      <ApiName>AreaWeather</ApiName>
      <AuthorizationSource>CONSOLE</AuthorizationSource>
      <Description>Queries weather based on the region name</
Description>
      <AuthorizedTime>2016-07-21T06:17:20Z</AuthorizedTime>
    </AuthorizedApi>
    <AuthorizedApi>
      <RegionId>cn-hangzhou</RegionId>
      <GroupId>523e8dc7bbe04613b5b1d726c2a7889d</GroupId>
      <GroupName>Weather</GroupName>
      <StageName>RELEASE</StageName>
      <Operator>CONSUMER</Operator>
      <ApiId>baacc592e63a4cb6a41920d9d3f89g76</ApiId>
      <ApiName>Area</ApiName>
      <AuthorizationSource>API</AuthorizationSource>
      <Description>Queries regions</Description>
      <AuthorizedTime>2016-07-21T06:17:20Z</AuthorizedTime>
    </AuthorizedApi>
  </AuthorizedApis>
</DescribeAuthorizedApisResponse>
```

- JSON format

```
{
  "PageNumber": "1",
  "TotalCount": "2",
  "PageSize": "10",
  "RequestId": "D6E46F10-F26C-4AA0-BB69-FE2743D9AE62",
  "AuthorizedApis": {
    "AuthorizedApi": [
      {
        "RegionId": "cn-hangzhou",
        "GroupId": "523e8dc7bbe04613b5b1d726c2a7889d",
        "GroupName": "Weather",
        "StageName": "RELEASE",
        "Operator": "Provider",
        "ApiId": "baacc592e63a4cb6a41920d9d3f91f38",
        "ApiName": "AreaWeather",
        "AuthorizationSource": "CONSOLE",
        "Description": "Queries weather based on the region name",
        "AuthorizedTime": "2016-07-21T06:17:20Z"
      }
    ]
  }
}
```

```
    },  
    {  
      "RegionId": "cn-hangzhou",  
      "GroupId": "523e8dc7bbe04613b5b1d726c2a7889d",  
      "GroupName": "Weather",  
      "StageName": "RELEASE",  
      "Operator": "CONSUMER",  
      "ApiId": "baacc592e63a4cb6a41920d9d3f89g76",  
      "ApiName": "Area",  
      "AuthorizationSource": "API",  
      "Description": "Queries regions",  
      "AuthorizedTime": "2016-07-21T06:17:20Z"  
    }  
  ]  
}
```

1.10.3 DescribeAuthorizedApps

Description

You can call this operation to query which applications currently have access to a specified API.

- This operation is intended for API providers.
- All applications included in the responses have access to the specified API.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeAuthorizedApps.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.
ApiId	String	Yes	The API ID, which is generated by the system and globally unique.
StageName	String	No	The name of the runtime environment. Valid values: • RELEASE • TEST
PageNumber	Integer	No	The specific page number that you want to query. The default value is 1. The starting number is 1.
PageSize	Integer	No	The number of rows per page. The maximum value is 100. The default value is 10.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The specified page number.
PageSize	Integer	The specified number of rows returned per page.
AuthorizedApps	AuthorizedApp	The returned group set.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=DescribeAuthorizedApps
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&ApiId=baacc592e63a4cb6a41920d9d3f91f38
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeAuthorizedAppsResponse>
  <TotalCount>2</TotalCount>
  <PageNumber>1</PageNumber>
  <PageSize>10</PageSize>
  <RequestId>D6E46F10-F26C-4AA0-BB69-FE2743D9AE62</RequestId>
  <AuthorizedApps>
    <AuthorizedApp>
      <StageName>RELEASE</StageName>
      <AppId>2386789</AppId>
      <AppName>Weather app</AppName>
      <Operator>PROVIDER</Operator>
      <AuthorizationSource>CONSOLE</AuthorizationSource>
      <Description>Queries weather based on the region name</
Description>
      <AuthorizedTime>2016-07-21T06:17:20Z</AuthorizedTime>
    </AuthorizedApp>
    <AuthorizedApp>
      <StageName>TEST</StageName>
      <AppId>2386789</AppId>
      <AppName>Weather app</AppName>
      <Operator>CONSUMER</Operator>
      <AuthorizationSource>API</AuthorizationSource>
      <Description>Queries weather based on the region name</
Description>
      <AuthorizedTime>2016-07-21T06:17:20Z</AuthorizedTime>
    </AuthorizedApp>
  </AuthorizedApps>
</DescribeAuthorizedAppsResponse>
```

```
</DescribeAuthorizedAppsResponse>
```

- JSON format

```
{
  "TotalCount": "2",
  "PageNumber": "1",
  "PageSize": "10",
  "RequestId": "D6E46F10-F26C-4AA0-BB69-FE2743D9AE62",
  "AuthorizedApps": {
    "AuthorizedApp": [
      {
        "StageName": "RELEASE",
        "AppId": 2386789,
        "AppName": "Weather app",
        "Operator": "PROVIDER",
        "AuthorizationSource": "CONSOLE",
        "Description": "Queries weather based on the region name",
        "AuthorizedTime": "2016-07-21T06:17:20Z"
      },
      {
        "StageName": "TEST",
        "AppId": 2386789,
        "AppName": "Weather app",
        "Operator": "CONSUMER",
        "AuthorizationSource": "API",
        "Description": "Queries weather based on the region name",
        "AuthorizedTime": "2016-07-21T06:17:20Z"
      }
    ]
  }
}
```

1.10.4 SetApisAuthorities

Description

You can call this operation to grant access permissions on multiple APIs to a specified application. In this case, multiple APIs map to a single application.

- This operation is intended for API providers and callers.
- API providers can authorize any applications to call their APIs.
- API callers can authorize their own applications to call APIs they have purchased.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to SetApisAuthorities.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.

Name	Type	Required	Description
StageName	String	Yes	The name of the runtime environment. Valid values: - RELEASE - TEST
AppId	Long	Yes	The application ID, which is generated by the system and globally unique.
ApiIds	String	No	The API ID for the specified operation. Separate multiple API IDs with commas (.). A maximum of 100 API IDs can be entered.
Description	String	No	The authorization description.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=SetApisAuthorities
&GroupId = 523e8dc7bbe04613b5b1d726c2a7889d
&StageName = RELEASE
&AppId = 2386789
&ApiIds = baacc592e63a4cb6a41920d9d3f91f38,jksc489e63a4cb6a419
20d9d3f92d78
&<Common request parameters>
```

Sample responses

- XML format

```
<SetApisAuthoritiesResponse>
  <RequestId>D6E46F10-F26C-4AA0-BB69-FE2743D9AE62</RequestId>
</SetApisAuthoritiesResponse>
```

- JSON format

```
{
  "RequestId": "D6E46F10-F26C-4AA0-BB69-FE2743D9AE62",
```

```
}
```

1.10.5 SetAppsAuthorities

Description

You can call this operation to grant access permissions on a specified API to multiple applications. In this case, multiple applications map to a single API.

- This operation is intended for API providers and callers.
- API providers can authorize any applications to call their APIs.
- API callers can authorize their own applications to call APIs they have purchased.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to SetAppsAuthorities.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.
StageName	String	Yes	The name of the runtime environment. Valid values: • RELEASE • TEST
ApId	String	Yes	The API ID, which is generated by the system and globally unique.
AppIds	String	Yes	The application ID for the specified operation. Separate multiple application IDs with commas (.). A maximum of 100 application IDs can be entered.
Description	String	No	The authorization description.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=SetAppsAuthorities
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&StageName=RELEASE
```

```
&ApiId = baacc592e63a4cb6a41920d9d3f91f38  
&AppIds = 2386789, 3389798  
&<Common request parameters>
```

Sample responses

- XML format

```
<SetAppsAuthoritiesResponse>  
  <RequestId>D6E46F10-F26C-4AA0-BB69-FE2743D9AE62</RequestId>  
</SetAppsAuthoritiesResponse>
```

- JSON format

```
{  
  "RequestId": "D6E46F10-F26C-4AA0-BB69-FE2743D9AE62",  
}
```

1.10.6 RemoveApisAuthorities

Description

You can call this operation to revoke the access permissions on multiple APIs from a specified application. In this case, multiple APIs map to a single application.

- This operation is intended for API providers and callers.
- Before you revoke access permissions, check by whom the permissions were granted. API providers can only revoke permissions granted by a Provider, and API callers can only revoke permissions granted by a Consumer.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to RemoveApisAuthorities.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.
StageName	String	Yes	The name of the runtime environment. Valid values: - RELEASE - TEST
ApiIds	String	Yes	The API ID for the specified operation. Separate multiple API IDs with commas (.). A maximum of 100 API IDs can be entered.

Name	Type	Required	Description
AppId	Long	Yes	The application ID, which is generated by the system and globally unique.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=RemoveApisAuthoritie
S
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&StageName=RELEASE
&ApiId=baacc592e63a4cb6a41920d9d3f91f38,jkscc489e63a4cb6a419
20d9d3f92d78
&AppId=2386789
&<Common request parameters>
```

Sample responses

- XML format

```
<RemoveApisAuthoritiesResponse>
  <RequestId>D6E46F10-F26C-4AA0-BB69-FE2743D9AE62</RequestId>
</RemoveApisAuthoritiesResponse>
```

- JSON format

```
{
  "RequestId": "D6E46F10-F26C-4AA0-BB69-FE2743D9AE62",
}
```

1.10.7 RemoveAppsAuthorities

Description

You can call this operation to revoke the access permissions on a specified API from multiple applications. In this case, multiple applications map to a single API.

- This operation is intended for API providers and callers.
- Before you revoke access permissions, check by whom the permissions were granted. API providers can only revoke permissions granted by a Provider, and API callers can only revoke permissions granted by a Consumer.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to RemoveAppsAuthorities.
GroupId	String	Yes	The API group ID, which is generated by the system and globally unique.
StageName	String	Yes	The name of the runtime environment. Valid values: • RELEASE • TEST
ApiId	String	Yes	The API ID, which is generated by the system and globally unique.
AppIds	String	Yes	The application IDs for the specified operation. Separate multiple application IDs with commas (.). A maximum of 100 application IDs can be entered.

Response parameters

Name	Type	Description
RequestId	String	The request ID.

Examples

Sample request

```
http://apigateway.cn-hangzhou.aliyuncs.com?Action=RemoveAppsAuthorities
&GroupId=523e8dc7bbe04613b5b1d726c2a7889d
&StageName = RELEASE
&ApiId = baacc592e63a4cb6a41920d9d3f91f38
&AppIds = 2386789, 3286798
&<Common request parameters>
```

Sample responses

- XML format

```
<RemoveAppsAuthoritiesResponse>
  <RequestId>D6E46F10-F26C-4AA0-BB69-FE2743D9AE62</RequestId>
</RemoveAppsAuthoritiesResponse>
```

- JSON format

```
{
  "RequestId": "D6E46F10-F26C-4AA0-BB69-FE2743D9AE62",
```

```
}
```

1.11 Other operations

1.11.1 DescribeRegions

Description

You can call this operation to query supported regions.

This operation is intended for API providers and callers.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeRegions.

Response parameters

Name	Type	Description
RequestId	String	The request ID.
Regions	Region	The returned region information. It is an array consisting of Region data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeRegions
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeRegionsResponse>
  <RequestId>36BBBAD4-1CFB-489F-841A-8CA52EEA787E</RequestId>
  <Regions>
    <Region>
      <RegionId>cn-qingdao</RegionId>
      <EndPoint>apigateway.cn-qingdao.aliyuncs.com</EndPoint>
      <LocalName>China (Qingdao)</LocalName>
    </Region>
    <Region>
      <RegionId>cn-hangzhou</RegionId>
      <EndPoint>apigateway.cn-hangzhou.aliyuncs.com</EndPoint>
      <LocalName>China (Hangzhou)</LocalName>
    </Region>
    <Region>
```

```
<RegionId>cn-beijing</RegionId>
<EndPoint>apigateway.cn-beijing.aliyuncs.com</EndPoint>
<LocalName>China (Beijing)</LocalName>
</Region>
<Region>
  <RegionId>cn-shenzhen</RegionId>
  <EndPoint>apigateway.cn-shenzhen.aliyuncs.com</EndPoint>
  <LocalName>China (Shenzhen)</LocalName>
</Region>
</Regions>
</DescribeRegionsResponse>
```

- JSON format

```
{
  "RequestId": "36BBBAD4-1CFB-489F-841A-8CA52EEA787E",
  "Regions": {
    "Region": [
      {
        "RegionId": "cn-qingdao",
        "EndPoint": "apigateway.cn-qingdao.aliyuncs.com",
        "LocalName": "China (Qingdao)"
      },
      {
        "RegionId": "cn-hangzhou",
        "EndPoint": "apigateway.cn-hangzhou.aliyuncs.com",
        "LocalName": "China (Hangzhou)"
      },
      {
        "RegionId": "cn-beijing",
        "EndPoint": "apigateway.cn-beijing.aliyuncs.com",
        "LocalName": "China (Beijing)"
      },
      {
        "RegionId": "cn-shenzhen",
        "EndPoint": "apigateway.cn-shenzhen.aliyuncs.com",
        "LocalName": "China (Shenzhen)"
      }
    ]
  }
}
```

1.11.2 DescribeSystemParameters

Description

You can call this operation to query configurable system parameters.

- This API is intended for API providers.
- The response of this API contains the system parameters that are optional in API definitions.

Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeSystemParameters.

Response parameters

Name	Type	Description
RequestId	String	The ID of the current request.
SystemParams	Array	The returned information about system parameters. It is an array consisting of SystemParamItem data.

Examples

Sample request

```
https://apigateway.cn-qingdao.aliyuncs.com/?Action=DescribeSystemParameters
&<Common request parameters>
```

Sample responses

- XML format

```
<DescribeSystemParametersResponse>
  <RequestId>0CCDF65E-6050-412D-AD68-FA3D9196836C</RequestId>
  <SystemParameters>
    <SystemParameter>
      <Description>Client IP address</Description>
      <DemoValue>192.168.1.1</DemoValue>
      <ParamName>CaClientIp</ParamName>
      <ParamType>string</ParamType>
    </SystemParameter>
    <SystemParameter>
      <Description>Request domain name</Description>
      <DemoValue>api.aliyun.com</DemoValue>
      <ParamName>CaDomain</ParamName>
      <ParamType>string</ParamType>
    </SystemParameter>
    <SystemParameter>
      <Description>Request time (UTC)</Description>
      <DemoValue>2016-01-30T03:53:16Z</DemoValue>
      <ParamName>CaRequestHandleTime</ParamName>
      <ParamType>string</ParamType>
    </SystemParameter>
    <SystemParameter>
      <Description>ConsumerAppId</Description>
      <DemoValue>123456</DemoValue>
      <ParamName>CaAppId</ParamName>
      <ParamType>string</ParamType>
    </SystemParameter>
    <SystemParameter>
      <Description>RequestId</Description>
      <DemoValue>7157EBD9-4684-4827-B3B0-9B32D186819B</DemoValue>
      <ParamName>CaRequestId</ParamName>
      <ParamType>string</ParamType>
    </SystemParameter>
  </SystemParameters>
</DescribeSystemParametersResponse>
```



```
<Description>Http Schema</Description>
<DemoValue>https</DemoValue>
<ParamName>CaHttpSchema</ParamName>
<ParamType>string</ParamType>
</SystemParameter>
<SystemParameter>
  <Description>Proxy</Description>
  <DemoValue>AliCloudApiGateway</DemoValue>
  <ParamName>CaProxy</ParamName>
  <ParamType>string</ParamType>
</SystemParameter>
</SystemParameters>
</DescribeSystemParametersResponse>
```

- JSON format

```
{
  "RequestId": "0CCDF65E-6050-412D-AD68-FA3D9196836C",
  "SystemParameters": {
    "SystemParameter": [
      {
        "Description": "Client IP address",
        "DemoValue": "192.168.1.1",
        "ParamName": "CaClientIp",
        "ParamType": "string"
      },
      {
        "Description": "Request domain name",
        "DemoValue": "api.aliyun.com",
        "ParamName": "CaDomain",
        "ParamType": "string"
      },
      {
        "Description": "Request time (UTC)",
        "DemoValue": "2016-01-30T03:53:16Z",
        "ParamName": "CaRequestHandleTime",
        "ParamType": "string"
      },
      {
        "Description": "ConsumerAppId",
        "DemoValue": "123456",
        "ParamName": "CaAppId",
        "ParamType": "string"
      },
      {
        "Description": "RequestId",
        "DemoValue": "7157EBD9-4684-4827-B3B0-9B32D186819B",
        "ParamName": "CaRequestId",
        "ParamType": "string"
      },
      {
        "Description": "Http Schema",
        "DemoValue": "https",
        "ParamName": "CaHttpSchema",
        "ParamType": "string"
      },
      {
        "Description": "Proxy",
        "DemoValue": "AliCloudApiGateway",
        "ParamName": "CaProxy",
        "ParamType": "string"
      }
    ]
  }
}
```

```
}  
}  
]
```

1.12 Data types

1.12.1 ApiGroupAttribute

Description

The information about a specified API group.

Node name

ApiGroupAttribute

Subnodes

Name	Type	Description
GroupId	String	The API group ID, which is generated by the system and globally unique.
GroupName	String	The name of the API group.
SubDomain	String	The second-level domain name that corresponds to the API group and is used by the CNAME of the custom domain name.
Description	String	The description of the API group.
CreatedTime	String	The creation time (UTC) of the API group.
ModifiedTime	String	The last modification time (UTC) of the API group.
RegionId	String	The region to which the API group belongs.
TrafficLimit	Integer	The upper QPS limit of the API group. The default value is 500. You can increase the upper limit by submitting an application.
BillingStatus	String	The billing status of the API group. Valid values: - NORMAL: The API group is normal. - LOCKED: The API group is locked due to overdue payments.
IllegalStatus	String	The validity status of the API group. Valid values: - NORMAL: The API group is normal. - LOCKED: The API group is locked because it is not valid.

1.12.2 ApiHisItem

Description

The information about a published API.

Node name

ApiHisItem

Subnodes

Name	Type	Description
RegionId	String	The region to which the API belongs.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
StageName	String	The name of the runtime environment. Valid values: • RELEASE • TEST
ApiId	String	The ID of the API.
ApiName	String	The name of the API.
Description	String	The description of the API.
HistoryVersion	String	The history version of the API.
Status	String	Indicates whether an API version is effective. Valid values: ONLINE and OFFLINE.
DeployedTime	String	The publishing time (UTC) of the API.

1.12.3 ApiInfo

Description

The information about a published API.

Node name

ApiInfo

Subnodes

Name	Type	Description
RegionId	String	The region to which the API belongs.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
StageName	String	The name of the runtime environment. Valid values: • RELEASE • TEST
ApId	String	The ID of the API.
ApiName	String	The name of the API.
Description	String	The API description.
Visibility	String	Indicates whether the API is public. Valid values: • PUBLIC • PRIVATE
BoundTime	String	The binding time of the API.

1.12.4 ApiSummary**Description**

The API summary information.

Node name

ApiSummary

Subnodes

Name	Type	Description
RegionId	String	The region to which the API belongs.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
ApId	String	The ID of the API.

Name	Type	Description
ApiName	String	The name of the API.
Description	String	The description of the API.
Visibility	String	Indicates whether the API is public. Valid values: • PUBLIC • PRIVATE
CreatedTime	String	The creation time (UTC) of the API.
ModifiedTime	String	The modification time (UTC) of the API.

1.12.5 ApiTrafficControllItem

Description

The information about the throttling policy bound to an API.

Node name

ApiTrafficControllItem

Subnodes

Name	Type	Description
Apild	String	The ID of the API.
ApiName	String	The name of the API.
TrafficControllId	String	The ID of the bound throttling policy.
TrafficControlName	String	The name of the bound throttling policy.
BoundTime	String	The binding time of the throttling policy.

1.12.6 AppAttribute

Description

The application information.

Node name

AppAttribute

Subnodes

Name	Type	Description
AppId	Long	The application ID.
AppName	String	The application name.
Description	String	The application description.
CreatedTime	String	The creation time (UTC) of the application.
ModifiedTime	String	The modification time (UTC) of the application.

1.12.7 ApplItem

Description

The application information.

Node name

ApplItem

Subnodes

Name	Type	Description
AppId	Long	The application ID.
AppName	String	The application name.
Description	String	The application description.

1.12.8 AuthorizedApi

Description

The mappings between applications and an API.

Node name

AuthorizedApi

Subnodes

Name	Type	Description
RegionId	String	The region to which the API belongs.

Name	Type	Description
GroupId	String	The API group ID, which is generated by the system and globally unique.
GroupName	String	The name of the API group.
StageName	String	The name of the runtime environment. Valid values: • RELEASE • TEST
Operator	String	The authorizer. Valid values: • PROVIDER: API owner • CONSUMER: API caller
ApiId	String	The unique identifier of the API, which is automatically generated by the system.
ApiName	String	The name of the API.
AuthorizationSource	String	The authorization source. Valid values: • CONSOLE • API
Description	String	The authorization description.
AuthorizedTime	String	The authorization time (UTC).

1.12.9 AuthorizedApp

Description

The application authorization information of APIs.

Node name

AuthorizedApp

Subnodes

Name	Type	Description
StageName	String	The name of the runtime environment. Valid values: • RELEASE • TEST

Name	Type	Description
AppId	Long	The application ID, which is generated by the system and globally unique.
AppName	String	The name of the application.
Operator	String	The authorizer. Valid values: • PROVIDER: API provider • CONSUMER: API caller
AuthorizationSource	String	The authorization source. Valid values: • CONSOLE • API
Description	String	The authorization description.
AuthorizedTime	String	The authorization time (UTC).

1.12.10 ConstantParameter

Description

The information about constant input parameters.

Node name

ConstantParameter

Subnodes

Name	Type	Description
ServiceParameterName	String	The name of the backend parameter.
ConstantValue	String	The parameter value.
Location	String	The parameter location. Valid values: BODY, HEAD, QUERY, and PATH.
Description	String	The description of the parameter.

1.12.11 CustomDomain

Description

The domain name information.

Node name

CustomDomain

Subnodes

Name	Type	Description
DomainName	String	The domain name.
CertificateId	String	The unique ID of the SSL certificate, which is automatically generated by the system.
CertificateName	String	The SSL certificate name.
DomainCNAMEStatus	String	The domain name resolution status. Valid values: • RESOLVED • UNRESOLVED
DomainBindingStatus	String	The binding status of the custom domain name. Valid values: • BINDING: The domain name has been bound. • BOUND: The domain name has not been bound.

1.12.12 DeployedApitem

Description

The information about a published API.

Node name

DeployedApitem

Subnodes

Name	Type	Description
RegionId	String	The region to which the API belongs.
GroupId	String	The ID of the API group.
GroupName	String	The name of the API group.
StageName	String	The name of the runtime environment. Valid values:

Name	Type	Description
		- RELEASE - TEST
Apild	String	The ID of the API.
ApiName	String	The name of the API.
Description	String	The description of the API.
Visibility	String	Indicates whether the API is public. Valid values: - PUBLIC - PRIVATE
DeployedTime	String	The publishing time (UTC) of the API.

1.12.13 DeployedInfo

Description

The information about API publishing.

Node name

DeployedInfo

Subnodes

Name	Type	Description
StageName	String	The name of the runtime environment. Valid values: RELEASE and TEST.
EffectiveVersion	String	The effective version.
DeployedStatus	String	The deployment status. Valid values: DEPLOYED and NONDEPLOYED.

1.12.14 DomainItem

Description

The domain name used to call an API.

Node name

DomainItem

Subnodes

Name	Type	Description
DomainName	String	The domain name used to call an API.

1.12.15 ErrorCodeSample

Description

The sample error codes.

Node name

ErrorCodeSample

Subnodes

Name	Type	Description
Code	String	The error code.
Message	String	The error message.
Description	String	The error description.

1.12.16 MonitorItem

Description

The monitoring metric information.

Node name

MonitorItem

Subnodes

Name	Type	Description
ItemTime	String	The time of the monitoring metric. The time format follows the ISO 8601 standard and UTC time is used. The format is YYYY-MM-DDThh:mm:ssZ.
ItemValue	String	The value corresponding to the monitoring metric.

1.12.17 Region

Description

The region information.

Node name

Region

Subnodes

Name	Type	Description
RegionId	String	The region ID.
LocalName	String	The region name.
Endpoint	String	The domain name, such as gateway.cn-hangzhou.aliyuncs.com.

1.12.18 RequestConfig

Description

The frontend information.

Node name

RequestConfig

Subnodes

Name	Type	Description
RequestProtocol	String	The protocol type supported by the API. Valid values: HTTP and HTTPS. Separate multiple values with commas (,), such as "HTTP,HTTPS".
RequestHttpMethod	String	The HTTP method. Valid values: GET, POST, DELETE, PUT, HEADER, TRACE, PATCH, CONNECT, and OPTIONS.
RequestPath	String	The API path. For example, in API address <i>http://api.a.com#8080/object/add?key1=value1&key2=value2</i> , RequestPath is /object/add.
BodyFormat	String	The server data transmission method used for POST and PUT requests. Valid values: FORM and STREAM. FORM indicates that data in key-value pairs is transmitted as forms. STREAM indicates that data is transmitted as byte streams.
PostBodyDescription	String	The description of the request body.

1.12.19 RequestParameter

Description

The information about frontend input parameters.

Node name

RequestParameter

Subnodes

Name	Type	Description
ApiParameterName	String	Parameter
Location	String	The parameter location. Valid values: BODY, HEAD, QUERY, and PATH.
ParameterType	String	The parameter type. Valid values: String, Int, Long, Float, Double, and Boolean.
Required.	String	Indicates whether the parameter is required. Valid values: REQUIRED and OPTIONAL.
DefaultValue	String	The default value.
DemoValue	String	An example of the parameter value.
MaxValue	Long	The maximum parameter value when ParameterType is set to Int, Long, Float, or Double.
MinValue	Long	The minimum parameter value when ParameterType is set to Int, Long, Float, or Double.
MaxLength	Long	The maximum parameter length when ParameterType is set to String.
MinLength	Long	The minimum parameter length when ParameterType is set to String.
RegularExpression	String	The regular expression used for parameter validation when ParameterType is set to String.
JsonScheme	String	The JSON Schema used for JSON validation when ParameterType is set to String.
EnumValue	String	The hash values that can be entered when ParameterType is set to Int, Long, Float, Double, or String. Separate different values with commas (,), such as 1,2,3,4,9 or A,B,C,E,F.

Name	Type	Description
DocShow	String	Indicates whether the document is public. Valid values : PUBLIC and PRIVATE.
DocOrder	Integer	The order in the document.
Description	String	The description of the parameter.

1.12.20 ServiceConfig

Description

The information about a backend service call.

Node name

ServiceConfig

Subnodes

Name	Type	Description
ServiceProtocol	String	The protocol used by the backend service. Valid values: HTTP and HTTPS.
ServiceAddress	String	The address used to call the backend service. For example, in the backend service address <i>http://api.a.com:8080/object/add?key1=value1&key2=value2</i> , ServiceAddress is <i>http://api.a.com:8080</i> .
ServicePath	String	The path used to call the backend service. For example, in the backend service address <i>http://api.a.com:8080/object/add?key1=value1&key2=value2</i> , ServicePath is <i>/object/add</i> .
ServiceHttpMethod	String	The HTTP method used to call a backend service. Valid values : GET, POST, DELETE, PUT, HEADER, TRACE, PATCH, CONNECT, and OPTIONS.
ServiceTimeout	String	The timeout period of the backend service, in millisecond.
Mock	String	Indicates whether the Mock mode is enabled. Valid values: TRUE and FALSE.
MockResult	String	The result returned when the Mock mode is enabled.

1.12.21 ServiceParameter

Description

The information about input parameters for a backend service call.

Node name

ServiceParameter

Subnodes

Name	Type	Description
ServiceParameterName	String	The name of the backend parameter.
Location	String	The parameter location. Valid values: BODY, HEAD, QUERY, and PATH.
ParameterType	String	The type of the backend parameter. Valid values: STRING, NUMBER, and BOOLEAN.

1.12.22 ServiceParameterMap

Description

The mappings between frontend input parameters and backend input parameters.

Node name

ServiceParameterMap

Subnodes

Name	Type	Description
ServiceParameterName	String	The name of the backend parameter.
RequestParameterName	String	The name of the corresponding frontend input parameter. It must be included in RequestParametersObject and matches ApiParameterName in RequestParameter data.

1.12.23 Special

Description

The special throttling policy.

Node name

Special

Subnodes

Name	Type	Description
SpecialKey	String	The Appld or user account corresponding to SpecialType.
TrafficValue	Integer	The throttling value.

1.12.24 SpecialPolicy

Description

The information about a special throttling policy.

Node name

SpecialPolicy

Subnodes

Name	Type	Description
SpecialType	String	The type of the special throttling policy. Valid values: • APP • USER
Specials	Array	The returned information about a special throttling policy. It is an array consisting of Special data.

1.12.25 StageInfo

Description

The runtime environment information.

Node name

StageInfo

Subnodes

Name	Type	Description
StageId	String	The ID of the runtime environment.

Name	Type	Description
StageName	String	The name of the runtime environment.
Description	String	The description of the runtime environment.

1.12.26 SystemParameter

Description

The system input parameter.

Node name

SystemParameter

Subnodes

Name	Type	Description
ParameterName	String	The name of the system parameter. Valid values: CaClientIp, CaDomain, CaRequestHandleTime, CaAppId, CaRequestId, CaHttpSchema, and CaProxy.
ServiceParameterName	String	The name of the corresponding backend parameter.
Location	String	The parameter location. Valid values: BODY, HEAD, QUERY, and PATH.
DemoValue	String	An example of the parameter value.
Description	String	The description of the system parameter.

1.12.27 SystemParamItem

Description

The information about a specified system parameter.

Node name

SystemParamItem

Subnodes

Name	Type	Description
ParamName	String	The name of the system parameter.
ParamType	String	The type of the system parameter.

Name	Type	Description
DemoValue	String	An example of the parameter value.
Description	String	The description of the system parameter.

1.12.28 TrafficControl

Description

The throttling policy.

Node name

TrafficControl

Subnodes

Name	Type	Description
TrafficControlId	String	The ID of the specified throttling policy.
TrafficControlName	String	The name of the throttling policy.
Description	String	The description of the throttling policy.
TrafficControlUnit	String	The unit in the throttling policy. Valid values: • MINUTE • HOUR • DAY
ApiDefault	Integer	The default throttling value for each API.
UserDefault	Integer	The default throttling value for each user.
AppDefault	Integer	The default throttling value for each application.
SpecialPolicies	Array	The returned information about a special throttling policy. It is an array consisting of SpecialPolicy data.
CreatedTime	String	The creation time (UTC) of the throttling policy.
ModifiedTime	String	The last modification time (UTC) of the throttling policy.

1.12.29 TrafficControlItem

Description

The information about a specified throttling policy.

Node name

TrafficControllItem

Subnodes

Name	Type	Description
TrafficControllItemId	String	The ID of the specified throttling policy.
TrafficControllItemName	String	The name of the throttling policy.
BoundTime	String	The binding time of the throttling policy.