

Alibaba Cloud CDN

API Reference

API Reference

Summary

Welcome to the Alibaba Cloud flexible computing service CDN (Content Delivery Network). Users can use this documentation to familiarize themselves with the relevant API operations for the CDN service.

Before using these interfaces, please be sure that you fully understand the CDN product instructions, use protocols, and charging methods.

Current CDN Open API version: 2014-11-11

Glossary

Description of Business Restrictions and Resource/Specification Constraints

See Appendix

Call Methods

CDN API interfaces are called by sending an HTTP GET request to the CDN API server. Such requests are completed by adding the relevant request parameters in the request according to the interface instructions. Results will be returned based on the request's processing status.

Request Structure

Service Address

The CDN API service access address is: cdn.aliyuncs.com

Communication Protocol

The system supports request communication through HTTP or HTTPS channels. In order to ensure the security of the request, we recommend that you send requests through an HTTPS channel.

Request Methods

The system supports the sending of HTTP GET requests. For this method, the request parameters must be included in the request URL.

Request Parameters

For each request, the operation to be executed must be specified, namely the Action parameter (e.g. CreateCDNServer), and each operation must contain the common request parameters and the specific request parameters of the specified operation.

Character encoding

Requests and returned results both use UTF-8 character set encoding.

Common Parameters

Common Request Parameters

Common request parameters specify the request parameters that must be used by every interface.

Name	Type	Required?	Description
Format	String	No	Type of value returned, JSON and XML supported. The default value is XML
Version	String	Yes	The API version, with the date format: YYYY-MM-DD. The current version is 2014-11-11
AccessKeyId	String	Yes	The secret key ID used to access services, issued to a user by Aliyun
Signature	String	Yes	The signature result string. Please refer to the description of the signature mechanism for

			details on the signature calculation method.
SignatureMethod	String	Yes	The signature method, HMAC-SHA1 currently supported
TimeStamp	String	Yes	The request' s timestamp.The date format follows the ISO8601 standard and uses UTC time.Format:YYYY-MM-DDThh:mm:ssZ.E.g.: 2014-11-11T12:00:00Z (Equivalent to 11/11/2014 20:00:00 Beijing time)
SignatureVersion	String	Yes	Signature algorithm version. The current version is 1.0
SignatureNonce	String	Yes	A unique random number, used to prevent replay attacks.The user must use different random numbers for different requests
OwnerId	String	Yes	The Aliyun account ID of the resource owner, i.e the user' s Aliyun account id_kp (available through the account system' s API).This parameter cannot appear together with "OwnerAccount" .
OwnerAccount	String	Yes	The resource owner' s Aliyun account, i.e. the login username.This parameter cannot appear together with "OwnerId" .

Request example:

```
https://cdn.aliyuncs.com/?Format=xml&Version=2013-01-10&Signature=Pc5WB8gokVn0xfeu%2FZV%2BiNM1dgI%3D&SignatureMethod=HMAC-SHA1&SignatureNonce=15215528852396&SignatureVersion=1.0&AccessKeyId=key-test&TimeStamp=2012-06-01T12:00:00Z
```

Common Return Parameters

Each time the user sends a call request to an interface, no matter if it is successful or not, the system will return a unique identification code (RequestId) to the user.

Example of XML results returned:

```
<?xml version="1.0" encoding="UTF-8"?>
<!--Result Root Node-->
<Interface Name+Response>
<!--Return Request Tag-->
<RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
<!--Return Result Data-->
</Interface Name+Response>
```

Example of JSON results returned:

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216",
  /* Return Result Data*/
}
```

Returned Results

After the API service is called, the returned data adopts a uniform format. A returned HTTP status code of 2xx indicates that the call was successful. A returned HTTP status code of 4xx or 5xx indicates that the call failed.

For successful calls, the primary formats of returned data are XML and JSON. When a request is sent, an external system can pass in parameters to specify the format of returned data. The default format is XML.

In this document, examples of results returned are formatted in a way that is easier for users to view. The actual results returned are not formatted with line breaks, indentation, etc.

Successful Results

Example of XML results returned: (XML results returned include a message stating if the request was successful and the specific service data)

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

```
<!--Result Root Node-->
<Interface Name+Response>
<!--Return Request Tag-->
<RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
<!--Return Result Data-->
</Interface Name+Response>
```

JSON example:

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216",
  /* Return Result Data*/
}
```

Error Results

After an error is encountered in an interface call, no result data will be returned. The caller can refer to the table in the appendix <Error Code Table> to locate the cause of the error.

When an error occurs in a call, the HTTP request will return a HTTP status code of 4xx or 5xx. The returned message body includes the specific error code and error message. It also contains a globally unique request ID: RequestId and the ID of the site you accessed with this request: HostId. If the caller cannot find the cause of the error, he can contact Aliyun customer service and provide the HostId and RequestId to help us solve the problem as quickly as possible.

XML example:

```
<?xml version="1.0" encoding="UTF-8"?>
<Error>
<RequestId>8906582E-6722-409A-A6C4-0E7863B733A5</RequestId>
<HostId>cdn.aliyuncs.com</HostId>
<Code>UnsupportedOperation</Code>
<Message>The specified action is not supported.</Message>
</Error>
```

JSON example:

```
{
  "RequestId": "8906582E-6722-409A-A6C4-0E7863B733A5",
  "HostId": "cdn.aliyuncs.com",
  "Code": "UnsupportedOperation",
  "Message": "The specified action is not supported."
}
```

Signature Mechanism

Introduction

Each time it is accessed by a request, the CDN service will perform sender authentication. Therefore, whether HTTP or HTTPS protocol is used to submit the request, the request must contain signature information. By using the 'Access Key ID' and 'Access Key Secret' the CDN performs symmetric encryption to authenticate the request sender. The 'Access Key ID' and 'Access Key Secret' are officially issued to visitors by Aliyun (visitors can apply for and manage them on the official Aliyun website).

The 'Access Key ID' indicates the identity of the visitor. The 'Access Key Secret' is the secret key used to encrypt the signature string and to verify the signature string on the server. It must be kept strictly confidential and should only be known to Aliyun and the user.

When a user calls a server, the following method is used to sign the request:

a. The Canonicalized Query String is constructed using the request parameters

The request parameters are ordered alphabetically by the parameter names (this includes the "common request parameters" and user-defined parameters for the given request interfaces described in this document, but not the Signature parameter mentioned in "Common Request Parameters").

Note: When a request is submitted using the 'GET' method, these parameters are the parameter section of the request URI (i.e. the section in the URI following the "?" and connected by "&").

The name and value of each request parameter are encoded. The names and values must undergo URL encoding using the 'UTF-8 character set'. The URL encoding rules are as follows:

- i. The characters A-Z, a-z, 0-9, and "-", "_", ".", "~" are not encoded.
- ii. Other characters are encoded in "%XY" format, with XY representing the characters' ASCII code in hexadecimal notation. For example, the English double quotes (") are encoded as %22.
- iii. Extended UTF-8 characters are encoded in "%XY%ZA..." format.
- iv. It must be noted that the English space () is encoded as %20, rather than the plus sign (+).

Note: Generally, libraries that support URL encoding (e.g. Java's java.net.URLEncoder) are all encoded according to the rules for the "application/x-www-form-urlencoded" MIME-type. If this encoding method is used, replace the plus signs (+) in the encoded strings with %20, the asterisks (*) with %2A, and change %7E back to the tilde (~) to conform to the encoding rules described above.

Connect the encoded parameter names and values with the English equals sign (=).

- Then, order the parameter name and value pairs connected by equals signs in alphabetical order and connect them with the & symbol to produce the Canonicalized Query String.

b. Follow the rules below to construct the string used for signature calculation by using the Canonicalized Query String constructed in the previous step:

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

Here, HTTPMethod is the HTTP method used for request submission, e.g. 'GET' .

percentEncode("/") is the encoded value for the character "/" according to the URL encoding rules described in 1.b, namely "%2F" .

percentEncode(CanonicalizedQueryString) is the encoded string of the Canonicalized Query String constructed in Step 1, produced by following the URL encoding rules described in 1.b.

c. According to RFC2104 definitions, use the above signature sting to calculate the signature' s HMAC value.Note:When calculating the signature, the Key is the "Access Key Secret" held by the user with the "&" character (ASCII:38) added on the end. The SHA1 hashing algorithm is used.

d. According to Base64 encoding rules, encode the above HMAC value into a string. This gives you the signature value.

e. Add the obtained signature value to the request parameters as the Signature parameter. This completes the request signing process.

Note:When the obtained signature value is submitted to the CDN server as the final request parameter value, it must undergo URL encoding like other parameters according to RFC3986 rules.

Using DescribeCdnService as an example, the request URL prior to signing is as follows:

```
http://cdn.aliyuncs.com/?SignatureVersion=1.0&Format=JSON&TimeStamp=2015-08-
06T02:19:46Z&AccessKeyId=testid&SignatureMethod=HMAC-SHA1&Version=2014-11-
11&Action=DescribeCdnService&SignatureNonce=9b7a44b0-3be1-11e5-8c73-08002700c460
```

Thus, the StringToSign is:

```
GET&%2F&AccessKeyId%3Dtestid%26Action%3DDescribeCdnService%26Format%3DJSON%26SignatureMethod%3
DHMAC-SHA1%26SignatureNonce%3D9b7a44b0-3be1-11e5-8c73-
08002700c460%26SignatureVersion%3D1.0%26TimeStamp%3D2015-08-
06T02%253A19%253A46Z%26Version%3D2014-11-11
```


If we assume the 'Access Key ID' is "testid", the 'Access Key Secret' is "testsecret", and the Key used for HMAC calculation is "testsecret&", the calculated signature value is:

```
L5m9NrptrrFq7weQ/YUHZinh8b8=
```

The signed request URL is (note the added Signature parameter):

```
http://cdn.aliyuncs.com/?SignatureVersion=1.0&Format=JSON&TimeStamp=2015-08-06T02%3A19%3A46Z&AccessKeyId=testid&SignatureMethod=HMAC-SHA1&Version=2014-11-11&Signature=L5m9NrptrrFq7weQ%2FYUHZinh8b8%3D&Action=DescribeCdnService&SignatureNonce=9b7a44b0-3be1-11e5-8c73-08002700c460
```

Attachment Download

SignatureMechanism_python_sdk: Attachment Download

Service Operator Interface

OpenCdnService

Description

Subscribe to the CDN service. Only after subscribing can you perform domain name operations.

- A single user can only subscribe once.
- Subscription restrictions:The account must have passed real-name authentication

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter Values:OpenCdnService
InternetChargeType	String	Yes	Service subscription charging type:PayByTraffic or PayByBandwidth.

			If the user does not make a choice, the default charging type is PayByTraffic
--	--	--	---

Specific Error Codes

ErrorCode	Message	HTTP Status
Forbidden.NotVerified	Your account is not verified yet	403
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InvalidInternetChargeType.Mismatch	Specified internet charge type violated with the previous one	400
CdnService.HasOpened	Your cdn service has opened	400

Examples

Request example

```
https://cdn.aliyuncs.com?&Action=OpenCdnService&InternetChargeType=PayByBandwidth&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "RequestId": "97C68796-EB7F-4D41-9D5B-12B909D76508"
}
```

XML format:

```
<?xml version="1.0" encoding="utf-8"?>
<OpenCdnServiceResponse>
  <RequestId>FD4E70AC-B791-43FA-B7BD-2DED234094C1</RequestId>
</OpenCdnServiceResponse>
```

DescribeCdnService

Description

Queries the CDN service status. Includes: Current charging type, service subscription time, start of next charging type, and current service status.

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter, values: DescribeCdnService

Return Parameters

Name	Type	Description
InternetChargeType	String	Charging type, PayByTraffic PayByBandwidth
OpeningTime	String	Service subscription time, ISO 8601 time format
ChangingChargeType	String	Start of next charging type, PayByTraffic PayByBandwidth
ChangingAffectTime	Date	GMT
OperationLocks	Struct	Operation lock status, e.g.: In arrears, security

Specific Error Codes

ErrorCode	Message	HTTP Status
OperationDenied	Your account does not open CDN service yet	403

Examples

Request example

```
https://cdn.aliyuncs.com?&Action=ModifyCdnService&InternetChargeType=PayByTraffic&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "RequestId": "97C68796-EB7F-4D41-9D5B-12B909D76508"
}
```

XML format:

```
<?xml version="1.0" encoding="utf-8"?>
<ModifyCdnServiceResponse>
  <RequestId>FD4E70AC-B791-43FA-B7BD-2DED234094C1</RequestId>
</ModifyCdnServiceResponse>
```

ModifyCdnService

Description

Changes the CDN service charging type.

- You must first subscribe to the service to perform this operation.
- Changes to the charging type take effect on 00:00 the next day. If there are multiple changes, the most recent shall prevail.
- Charging types:
 - Charge by peak bandwidth
 - Charge by traffic

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter, values:ModifyCdnService
InternetChargeType	String	Yes	Service subscription

			charging types:By traffic and by peak bandwidth. The user must specify a type:PayByTraffic or PayByBandwidth
--	--	--	---

Specific Error Codes

ErrorCode	Message	HTTP Status
OperationDenied	Your account does not open CDN service yet.	403
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InsufficientBalance	Your account does not have enough balance.	400
Forbidden.NotVerified	Your account is not verified yet.	403

Examples

Request example:

```
https://cdn.aliyuncs.com?&Action=DescribeCdnService&<Common Request Parameter>
```

Return example:

JSON format:

```
{
  "ChangingAffectTime" : "2014-11-27T16:00:00Z",
  "ChangingChargeType" : "PayByBandwidth",
  "InternetChargeType" : "PayByTraffic",
  "OpeningTime" : "2014-02-28T13:11:49Z",
  "OperationLocks" : {
    "LockReason" : []
  },
  "RequestId" : "BFFCDFAD-DACC-484E-9BE6-0AF3B3A0DD23"
}
```

XML format:

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

```
<DescribeCdnServiceResponse>  
<ChangingAffectTime>2014-11-27T16:00:00Z</ChangingAffectTime>  
<ChangingChargeType>PayByBandwidth</ChangingChargeType>  
<InternetChargeType>PayByTraffic</InternetChargeType>  
<OpeningTime>2014-02-28T13:11:49Z</OpeningTime>  
<OperationLocks/>  
<RequestId>A3B16623-3A44-48D0-B19A-5799E13C8CCB</RequestId>  
</DescribeCdnServiceResponse>
```

CDN API overview

Service operation interface

API	Description
OpenCdnService	Activates the CDN service.
DescribeCdnService	Queries the CDN service status. This includes the current billing type, service activation time, the billing type that will take effect next, and the current service status.
ModifyCdnService	Changes the CDN service billing type.

Domain name operation interface

API	Description
DescribeUserDomains	Queries all domain names and statuses under a user name.
DescribeCdnDomainDetail	Obtains the basic information for the specified CDN domain configuration.
AddCdnDomain	Adds CDN domains. At one time, only one CDN can be submitted.
StartCdnDomain	Activates a deactivated CDN domain by changing the "DomainStatus" to "online" .
StopCdnDomain	Deactivates a CDN domain by changing the "DomainStatus" to "offline" .
DeleteCdnDomain	[USE WITH CAUTION] Deletes the current CDN domain. Only one CDN domain can be submitted at a time.

Refresh and push interface

API	Description
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RefreshObjectCaches	Refreshes the file content on a node. Refreshes the specified URL content to the Cache node. Only one URL can be submitted each time.
PushObjectCache	Actively pushes content from the origin site to the L2 Cache node. Upon first access, users can directly hit cache so as to relieve pressure on the origin site.
DescribeRefreshTasks	Queries whether or not cache push or refresh statuses have taken effect for the whole site.

Resource monitoring interface

API	Description
DescribeCdnMonitorData	Obtains the domain name metric data with a minimum granularity of 5 minutes, including the request hit rate, byte hit rate, QPS, traffic, and average response time.

Log Information Interface

API	Description
DescribeCdnDomainLogs	Obtains the download address for the original access log of the specified domain name.

Domain Name Operator Interface

AddCdnDomain

Description

Add domain names to be accelerated. At one time, you can only submit one domain name. A single user can add up to 20 domain names.

Restrictions:

- Before creating an acceleration domain name, you must first subscribe to the CDN service.

- The acceleration domain name must already have been filed.
- If the origin site content is not on the Aliyun platform, it must be reviewed. The review will be completed before the next business day.

Request Parameters

Parameter	Type	Required?	Description
Action	String	Yes	Operator interface name, required parameter Values: AddCdnDomain
DomainName	String	Yes	The domain name that requests access to CDN
SslFlag	String	No	Whether or not to use https domain name, not activated by default Values: 0 Not activated; 1 Activated
CdnType	String	Yes	acceleration domain name business type; Values: web: distribution of images and small files; download: acceleration of large file downloads; video: acceleration of streaming media
SourceType	String	Yes	Origin site type Values: ipaddr: IP origin site; domain: domain name origin site; oss: use OSS Bucket as origin site
Sources	String	Yes	Return to source address, can be an IP or domain name; supports up to 100 IPs separated by commas, only one domain name can be entered. IPs and domain names cannot be entered at the same time.

Return Parameters

Name	Type	Description
RequestID	String	The ID that requests the task

Specific Error Codes

ErrorCode	Message	HTTP Status
BusinessExist	Business exist do not repeated submission	400
InvalidParameter	The specified Domain is not vaild.	400
InvalidParameter	The specified parameter DomainName format is error.	400
DomainAlreadyExist	This domain name is exist already	400
DomainOverLimit	The Number of Domain is over the limit	403
DomainNotRegistration	The Domain name is not registered	404
IllegalOperation	illegal domain operate is not permitted.	403
InvalidParameter	Source name can not equal to domain name	400
InvalidParameter	The specified Source is not vaild.	400
InvalidParameter	The specified parameter IP format is error.	400
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InternalError	The request processing has failed due to backend service exception.	400

Examples

Request example:

```
http://cdn.aliyuncs.com?Action=AddCdnDomain&CdnType=web&SourceType=domain&DomainName=test.com&
```

```
Sources=test.com&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "RequestId": "15C66C7B-671A-4297-9187-2C4477247A74"
}
```

XML format:

```
<AddCdnDomainResponse>
  <RequestId>A22F5DDD-E6B8-4DB4-A210-FF3CA5A82644</RequestId>
</AddCdnDomainResponse>
```

DescribeUserDomains

Description

Queries all domain names and statuses under a user name. Domain name statuses include:

- running (indicates the domain name service is normal and can be used)
- stopped
- configuring
- configure_failed

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter, values:DescribeUserDomains
PageSize	Integer	No	Page size, default value of 20, maximum of 50, values:Any integer from 1 to 50
PageNumber	Integer	No	Retrieves a certain page number, range:1~100000

Return Parameters

Name	Type	Description
Domains	Struct	List composed of domains
PageSize	Integer	Full page size
PageNumber	Integer	Returned data page
TotalCount	Integer	Total number of items

Specific Error Codes

ErrorCode	Message	HTTP Status
OperationDenied	Your account does not open CDN service yet	403

Examples

Request example

```
https://cdn.aliyuncs.com?&Action=DescribeUserDomains&PageNumber=1&PageSize=5&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "Domains": {
    "CDNDomain": [{
      "DomainName": "****.***.com",
      "DomainStatus": "online"
    }, {
      "DomainName": "****.***.com ",
      "DomainStatus": "online "
    }, {
      "DomainName": "****.***.com ",
      "DomainStatus": "online "
    }, {
      "DomainName": "****.***.com ",
      "DomainStatus": "online "
    }, {
      "DomainName": "****.***.com ",
      "DomainStatus": "configure_failed"
    }
  ]
}
```

```
{,
  "PageNumber" : 1,
  "PageSize" : 5,
  "TotalCount" : 14,
  "RequestId" : "9D73CF5C-FAD6-4DE1-BA0F-6DAABE66BE9F"
}
```

XML format:

```
<?xml version="1.0" encoding="utf-8"?>
<DescribeUserDomainsResponse>
  <Domains>
    <CDNDomain>
      <DomainName>***.***.com</DomainName>
      <DomainStatus>online</DomainStatus>
    </CDNDomain>
    <CDNDomain>
      <DomainName>***.***.com</DomainName>
      <DomainStatus>offline </DomainStatus>
    </CDNDomain>
    <CDNDomain>
      <DomainName>***.***.com </DomainName>
      <DomainStatus>online </DomainStatus>
    </CDNDomain>
    <CDNDomain>
      <DomainName>***.***.com </DomainName>
      <DomainStatus>online</DomainStatus>
    </CDNDomain>
    <CDNDomain>
      <DomainName>***.***.com </DomainName>
      <DomainStatus>configure_failed</DomainStatus>
    </CDNDomain>
  </Domains>
  <PageNumber>1</PageNumber>
  <PageSize>5</PageSize>
  <TotalCount>14</TotalCount>
  <RequestId>E107FDE8-84D9-465D-B73B-DF41BADB0049</RequestId>
</DescribeUserDomainsResponse>
```

DescribeCdnDomainDetail

Description

Obtains the basic information for the specified acceleration domain name configuration

Request Parameters

Parameter	Type	Required	Description
-----------	------	----------	-------------

Action	String	Yes	Operator interface name, required parameter Values:DescribeCdnDomainDetail
DomainName	String	Yes	The domain name that requests access to CDN

Return Parameters

Name	Type	Description
DomainName	String	Domain name accessing CDN for acceleration
Cname	String	The CNAME domain name generated for the acceleration domain name. It is required to resolve the acceleration domain name CNAME to this domain name at the DNS provider
HttpsCname	String	Domain name with https CNAME activated
Sources	String	Origin site information, domain name or IP
DomainStatus	String	acceleration domain name operating status Values:online indicates enabled; offline indicates disabled; configuring indicates it is being configured; configure_failed indicates configuration has failed
CdnType	String	acceleration domain name business type Values:web indicates acceleration of images and small files; download indicates acceleration of large file downloads; video indicates acceleration of video streaming
SourceType	String	Origin site type Values:ipaddr indicates an IP origin site; domain indicates a domain name origin site; oss indicates an OSS Bucket is specified as the origin site

GmtCreated	String	Time of creation
GmtModified	String	Time of last modification

Specific Error Codes

ErrorCode	Message	HTTP Status
DomainNotExist	This domain name is not exist	404
IllegalOperation	Illegal domain operate is not permitted.	403
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InternalError	The request processing has failed due to backend service exception.	400

Examples

Request example:

```
http://cdn.aliyuncs.com?Action=DescribeCdnDomainDetail&DomainName=test.com&<Common Request Parameter>
```

Return example:

JSON format

```
{
  "GetDomainDetailModel": {
    "CdnType": "web",
    "Cname": "bb.test.com.w.kunlunle.com",
    "DomainName": "bb.test.com",
    "DomainStatus": "online",
    "GmtCreated": "2015-06-25T03:30:50Z",
    "GmtModified": "2015-06-25T03:30:53Z",
    "HttpsCname": "bb-test-com.alikunlun.com",
    "SourceType": "domain",
    "Sources": {
      "Source": [
        "test.com"
      ]
    }
  },
  "RequestId": "18CF38AA-1275-451D-A12B-4EC0BF1C5E30"
}
```

XML format

```
<DescribeCdnDomainDetailResponse>
  <GetDomainDetailModel>
    <CdnType>web</CdnType>
    <Cname>bb.test.com.w.kunlunle.com</Cname>
    <DomainName>bb.test.com</DomainName>
    <DomainStatus>online</DomainStatus>
    <GmtCreated>2015-06-25T03:30:50Z</GmtCreated>
    <GmtModified>2015-06-25T03:30:53Z</GmtModified>
    <HttpsCname>bb-test-com.alikunlun.com</HttpsCname>
    <SourceType>domain</SourceType>
    <Sources>
      <Source>test.com</Source>
    </Sources>
  </GetDomainDetailModel>
  <RequestId>C6AAEE3B-5859-40B6-903A-884DC4C448AF</RequestId>
</DescribeCdnDomainDetailResponse>
```

StartCdnDomain

Description

Enables a disabled acceleration domain name and changes the DomainStatus to online

Note:

- If the account corresponding to the domain name is in arrears or the domain name is illegal, you cannot call this interface to enable the acceleration domain name in the normal way

Request Parameters

Parameter	Type	Required?	Description
Action	String	Yes	Operator interface name, required parameter Values:StartCdnDomain
DomainName	String	Yes	The domain name that requests access to CDN

Return Parameters

Name	Type	Description
------	------	-------------

RequestId	String	The ID that requests the task
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Specific Error Codes

ErrorCode	Message	HTTP Status
OperationDenied	Your account does not open CDN service yet.	403
InsufficientBalance	Your account does not have enough balance.	400
DomainNotExist	This domain name is not exist	404
IllegalOperation	illegal domain operate is not permitted.	403
ServiceBusy	The specified Domain is configuring, please retry later	503
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InternalError	The request processing has failed due to backend service exception.	400

Examples

Request example:

```
http://cdn.aliyuncs.com?Action=StartCdnDomain&DomainName=test.com&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "RequestId": "0AEDAF20-4DDF-4165-8750-47FF9C1929C9"
}
```

XML format:

```
<StartCdnDomainResponse>
  <RequestId>8436769A-55D0-4DF8-BBA7-0DBC156D7AAF</RequestId>
</StartCdnDomainResponse>
```


StopCdnDomain

Description

Disables an acceleration domain name and changes the DomainStatus to offline

Note

- After disabling this acceleration domain name, the acceleration domain name information will be retained. The system will automatically perform return to source processing for requests to the acceleration domain name
- If, for the moment, you do not require acceleration for a certain domain name, we recommend using the StopCdnDomain interface to suspend acceleration for the domain name

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter Values:StopCdnDomain
DomainName	String	Yes	The domain name that requests access to CDN

Return Parameters

Name	Type	Description
RequestID	String	The ID that requests the task

Specific Error Codes

ErrorCode	Message	HTTP Status
DomainNotExist	This domain name is not exist	404
IllegalOperation	illegal domain operate is not permitted.	403

ServiceBusy	The specified Domain is configuring, please retry later	503
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InternalError	The request processing has failed due to backend service exception.	400

Examples

Request example:

```
http://cdn.aliyuncs.com?Action=StopCdnDomain&DomainName=test.com&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "RequestId": "324AEFFF-308C-4DA7-8CD3-01B277B98F28"
}
```

XML format:

```
<StopCdnDomainResponse>
  <RequestId>12FE5F2B-8D1F-447F-AAD7-51183F3EEA07</RequestId>
</StopCdnDomainResponse>
```

DeleteCdnDomain

Description

Deletes an added acceleration domain name.

Note

- Please be careful when using this operation (we suggest you restore the domain name A record at the DNS provider before deleting the domain name) to ensure the domain name can still be accessed after deletion.
- After DeleteCdnDomain is called successfully, all the records associated with the acceleration

domain name will be deleted. If you only wish to suspend use of the acceleration domain name temporarily, we recommend using the StopCdnDomain interface

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter Values:DeleteCdnDomain
DomainName	String	Yes	The domain name that requests access to CDN

Return Parameters

Name	Type	Description
RequestID	String	The ID that requests the task

Specific Error Codes

ErrorCode	Message	HTTP Status
OperationDenied	Your account does not open CDN service yet.	403
InvaildParameter	The specified Domain is not vaild.	400
InvaildParameter	The specified parameter DomainName format is error.	400
DomainNotExist	This domain name is not exist	404
ServiceBusy	The specified Domain is configuring, please retry later	503
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InternalError	The request processing has failed due to backend service exception.	400

Examples

Request example:

```
http://cdn.aliyuncs.com?Action=DeleteCdnDomain&DomainName=test.com&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "RequestId": "94E3559F-7B6A-4A5E-AFFD-44E2A208A249"
}
```

XML format:

```
<DeleteCdnDomainResponse>
  <RequestId>4785C948-233E-45FD-BA27-1C2119BBC2CC</RequestId>
</DeleteCdnDomainResponse>
```

Content Refresh Interface

RefreshObjectCaches

Description

Refreshes the file content on a node. Refreshes the specified URL content to the Cache node. Only one URL can be submitted each time.

Restrictions:

- For a single ID, users can submit a maximum daily refresh-type request amount of:URL:2000; directories:100.
- Refresh-type interfaces include the 'RefreshObjectCaches' and 'PushObjectCache' interfaces

Request Parameters

Parameter	Type	Required	Description
-----------	------	----------	-------------

Action	String	Yes	Operator interface name, required parameter, values:RefreshObject Caches
ObjectPath	String	Yes	Input example:abc.com/image/1.png
ObjectType	String	No	Optional, the refresh type. Values: File Directory, the default value is File.

Return Parameters

Name	Type	Description
RefreshTaskId	String	Refresh returned task ID

Specific Error Codes

ErrorCode	Message	HTTP Status
Throttling	Request was denied due to request throttling.	503
OperationDenied	Your account does not open CDN service yet.	403
InvalidDomain.Offline	Specified domain is offline.	400
QuotaExceeded.Refresh	exceed the prescribed limits	400
InvalidDomain.Configuring	Specified domain is configuring.	400
InvalidDomain.Configure_failed	Specified domain is configure_failed	400
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InvalidParameter.Mismatch	Specified object path does not math the specified object type.	400

Examples

Request example

```
https://cdn.aliyuncs.com?&Action=RefreshObjectCaches&ObjectPath=test.test.com/test.txt&ObjectType=File&<Common Request Parameter>
```

Return example

JSON format:

```
{
  "RefreshTaskId":"704222904","RequestId":"D61E4801-EAFF-4A63-AAE1-FBF6CE1CFD1C"
}
```

XML format:

```
<?xml version="1.0" encoding="utf-8"?>
<RefreshObjectCachesResponse>
  <RefreshTaskId>704225667</RefreshTaskId>
  <RequestId>AB14769A-A5F2-4CCD-B85B-3368DFF63C0A</RequestId>
</RefreshObjectCachesResponse>
```

PushObjectCache

Description

Takes content from the origin site and actively preprocess it to the L2 Cache node. Upon first access, users can directly cache hit to relieve pressure on the origin site.

Restrictions:

- For a single ID, users can submit a maximum daily refresh-type request amount of URL: 2000.
NOTE, PushObjectCache supports individual URL only
- Refresh-type interfaces include the 'RefreshObjectCaches' and 'PushObjectCache' interfaces

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter, values:PushObjectCache
ObjectPath	String	Yes	Input example:abc.com/image/1.png

Return Parameters

Name	Type	Description
RefreshTaskId	String	Refresh returned task ID

Specific Error Codes

ErrorCode	Message	HTTP Status
Throttling	Request was denied due to request throttling.	503
OperationDenied	Your account does not open CDN service yet.	403
InvalidDomain.Offline	Specified domain is offline.	400
QuotaExceeded.Refresh	exceed the prescribed limits	400
InvalidDomain.Configuring	Specified domain is configuring.	400
InvalidDomain.Configure_failed	Specified domain is configure_failed	400
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InvalidParameter.Mismatch	Specified object path does not math the specified object type.	400

Examples

Request example

```
https://cdn.aliyuncs.com?&Action=PushObjectCache&ObjectPath=test.test.com/test.txt&ObjectType=File&<Comm on Request Parameter>
```

Return example

JSON format:

```
{
  "PushTaskId": "95248880",
  "RequestId": "E5BD4B50-7A02-493A-AE0B-97B9024B4135"
}
```

XML format:

```
<PushObjectCacheResponse>  
<PushTaskId>95250421</PushTaskId>  
<RequestId>5FF9B16E-FBAC-48E5-9052-65B5F0184DB3</RequestId>  
</PushObjectCacheResponse>
```

DescribeRefreshTasks

Description

Queries whether or not refresh and preprocessing statuses have taken effect for the whole site.

- Supports task ID query and URL query
- If neither the taskid or objectpath are specified, it will query the first page of data (20 items) from the past 7 days by default
- A taskid and objectpath can be specified at the same time, with a logical relationship of AND
- Only the data from the past 7 days can be queried

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter Values:DescribeRefreshTasks
TaskId	String	No	Queries refresh status by task ID
ObjectPath	String	No	Queries refresh status through an object path
PageSize	Integer	No	Page size, default value of 20, maximum of 50, values:Any integer from 1 to 50
PageNumber	Integer	No	Retrieves a certain page number, range:1~100000

Return Parameters

Name	Type	Description
Tasks	Struct	The task list composed of TaskItem.
PageSize	Integer	Full page size
PageNumber	Integer	Page number
TotalCount	Integer	Total number of items

Specific Error Codes

ErrorCode	Message	HTTP Status
OperationDenied	Your account does not open CDN service yet.	403
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400

Examples

Request example:

```
https://cdn.aliyuncs.com?&Action=DescribeRefreshTasks&ObjectPath=&PageNumber=1&PageSize=10<Common Request Parameter>
```

Return example:

JSON format:

```
{
  "Tasks": {
    "CDNTask": [{
      "CreationTime": "2014-11-27T08:23:22Z",
      "ObjectPath": "http://news.ifeng.com/1.txt",
      "Status": "Complete",
      "TaskId": "704225667"
    }, {
      "CreationTime": "2014-11-27T08:18:38Z",
      "ObjectPath": "http://news.ifeng.com/1.txt",
      "Status": "Complete",
      "TaskId": "704222904"
    }, {
      "CreationTime": "2014-11-27T07:58:58Z",
      "ObjectPath": "http://news.ifeng.com/static/",

```

```

        "Status" : "Complete",
        "TaskId" : "704211692"
    }, {
        "CreationTime" : "2014-11-27T07:58:31Z",
        "ObjectPath" : "http://news.ifeng.com/static/1.png",
        "Status" : "Complete",
        "TaskId" : "704211414"
    }, {
        "CreationTime" : "2014-11-27T07:56:54Z",
        "ObjectPath" : "http://news.ifeng.com/static/",
        "Status" : "Complete",
        "TaskId" : "704210512"
    }, {
        "CreationTime" : "2014-11-27T07:56:42Z",
        "ObjectPath" : "http://news.ifeng.com/static/1.png",
        "Status" : "Complete",
        "TaskId" : "704210368"
    }, {
        "CreationTime" : "2014-11-27T07:56:11Z",
        "ObjectPath" : "http://news.ifeng.com/static/1.png",
        "Status" : "Complete",
        "TaskId" : "704210004"
    }, {
        "CreationTime" : "2014-11-27T04:06:27Z",
        "ObjectPath" : "http://haitao.smzdm.com/1.txt",
        "Status" : "Complete",
        "TaskId" : "704081031"
    }
    ]
},
"PageNumber" : 1,
"PageSize" : 10,
"TotalCount" : 8,
"RequestId" : "174F6032-AA26-470D-B90E-36F0EB205BEE"
}

```

XML format:

```

<?xml version="1.0" encoding="utf-8"?>
<DescribeRefreshTasksResponse>
  <Tasks>
    <CDNTask>
      <CreationTime>2014-11-27T08:23:22Z</CreationTime>
      <ObjectPath>http://news.ifeng.com/1.txt</ObjectPath>
      <Status>Complete</Status>
      <TaskId>704225667</TaskId>
    </CDNTask>
    <CDNTask>
      <CreationTime>2014-11-27T08:18:38Z</CreationTime>
      <ObjectPath>http://news.ifeng.com/1.txt</ObjectPath>
      <Status>Complete</Status>
      <TaskId>704222904</TaskId>
    </CDNTask>
    <CDNTask>
      <CreationTime>2014-11-27T07:58:58Z</CreationTime>

```

```
<ObjectPath>http://news.ifeng.com/static/</ObjectPath>
<Status>Complete</Status>
<TaskId>704211692</TaskId>
</CDNTask>
<CDNTask>
  <CreationTime>2014-11-27T07:58:31Z</CreationTime>
  <ObjectPath>http://news.ifeng.com/static/1.png</ObjectPath>
  <Status>Complete</Status>
  <TaskId>704211414</TaskId>
</CDNTask>
<CDNTask>
  <CreationTime>2014-11-27T07:56:54Z</CreationTime>
  <ObjectPath>http://news.ifeng.com/static/</ObjectPath>
  <Status>Complete</Status>
  <TaskId>704210512</TaskId>
</CDNTask>
<CDNTask>
  <CreationTime>2014-11-27T07:56:42Z</CreationTime>
  <ObjectPath>http://news.ifeng.com/static/1.png</ObjectPath>
  <Status>Complete</Status>
  <TaskId>704210368</TaskId>
</CDNTask>
<CDNTask>
  <CreationTime>2014-11-27T07:56:11Z</CreationTime>
  <ObjectPath>http://news.ifeng.com/static/1.png</ObjectPath>
  <Status>Complete</Status>
  <TaskId>704210004</TaskId>
</CDNTask>
<CDNTask>
  <CreationTime>2014-11-27T04:06:27Z</CreationTime>
  <ObjectPath>http://haitao.smzdm.com/1.txt</ObjectPath>
  <Status>Complete</Status>
  <TaskId>704081031</TaskId>
</CDNTask>
</Tasks>
<PageNumber>1</PageNumber>
<PageSize>10</PageSize>
<TotalCount>8</TotalCount>
<RequestId>13DF2E2F-FBF8-4E1C-9222-98141795443D</RequestId>
</DescribeRefreshTasksResponse>
```

Resource Monitoring Interface

DescribeCdnMonitorData

Description

Obtains the domain name monitoring data with a minimum granularity of 5 minutes. Includes: Requests hit rate, byte hit rate, QPS, traffic, and average response time.

When a StartTime and EndTime are not specified, it will read the past 24 hours of data by default.

Query by specified start and end times is also supported. The two must be specified at the same time.

- Only 1 domain name can be queried at a time
- At most, data from the last 30 days can be obtained

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter Values: DescribeCdnMonitorData
DomainName	String	Yes	Values: img.a.com
StartTime	String	No	The least recent time point for obtaining monitoring information. The date format adopts ISO8601 notation and uses UTC time. Format: YYYY-MM-DDThh:mm:ssZ The minimum data granularity is 5 minutes If not entered, data from the past 24 hours is read by default
EndTime	String	No	The end time must be after the start time. The most recent time point for obtaining monitoring information. The date format adopts ISO8601 notation and uses UTC time. Format: YYYY-MM-DDThh:mm:ssZ

Return Parameters

Name	Type	Description
------	------	-------------

DomainName	String	DomainName.
MonitorInterval	String	The time interval between each record, in seconds.This period has a fixed value of 300s.
StartTime	DateTime	Start time
EndTime	DateTime	End time
MonitorDatas	MonitorDataItem	The arrays composed of MonitorDataItem.

Specific Error Codes

ErrorCode	Message	HTTP Status
OperationDenied	Your account does not open CDN service yet.	403
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InvalidEndTime.Mismatch	Specified end time does not math the specified start time.	400
MissingParameter	An input parameter <parameter name> that is mandatory for processing the request is not supplied.	400
InvalidStartTime.Malformed	Specified start time is malformed.	400
InvalidEndTime.Malformed	Specified end time is malformed.	400

Examples

Request example:

```
https://cdn.aliyuncs.com?&Action=DescribeCdnMonitorData&DomainName=news.ifeng.com&StartTime=2014-11-15T00:00:00Z&EndTime=2014-11-24T00:00:00Z&<Common Request Parameter>
```

Return example:

JSON format

```
{  
  "MonitorDatas" : {
```

```

"CDNMonitorData": [{
  "AverageObjectSize": "860.5",
  "BytesHitRate": "0.0",
  "BytesPerSecond": "137",
  "QueryPerSecond": "0.02",
  "RequestHitRate": "0.0",
  "TimeStamp": "2014-11-22T16:00:00Z"
}, {
  "AverageObjectSize": "860.5",
  "BytesHitRate": "0.0",
  "BytesPerSecond": "91",
  "QueryPerSecond": "0.01",
  "RequestHitRate": "0.0",
  "TimeStamp": "2014-11-22T17:00:00Z"
}, {
  "AverageObjectSize": "859.8333333333333",
  "BytesHitRate": "0.0",
  "BytesPerSecond": "91",
  "QueryPerSecond": "0.01",
  "RequestHitRate": "0.0",
  "TimeStamp": "2014-11-19T04:00:00Z"
}, {
  "AverageObjectSize": "477.2",
  "BytesHitRate": "37.1542330259849",
  "BytesPerSecond": "436",
  "QueryPerSecond": "0.11",
  "RequestHitRate": "42.5",
  "TimeStamp": "2014-11-18T18:00:00Z"
}
],
"DomainName": "news.ifeng.com",
"EndTime": "2014-11-24T00:00:00Z",
"MonitorInterval": 3600,
"StartTime": "2014-11-15T00:00:00Z",
"RequestId": "7B2B8D2B-F507-4045-B39B-B421CBE81888"
}

```

XML format:

```

<?xml version="1.0" encoding="utf-8"?>
<DescribeCdnMonitorDataResponse>
  <MonitorDatas>
    <CDNMonitorData>
      <AverageObjectSize>860.5</AverageObjectSize>
      <BytesHitRate>0.0</BytesHitRate>
      <BytesPerSecond>137</BytesPerSecond>
      <QueryPerSecond>0.02</QueryPerSecond>
      <RequestHitRate>0.0</RequestHitRate>
      <TimeStamp>2014-11-22T16:00:00Z</TimeStamp>
    </CDNMonitorData>
    <CDNMonitorData>
      <AverageObjectSize>860.5</AverageObjectSize>
      <BytesHitRate>0.0</BytesHitRate>
      <BytesPerSecond>91</BytesPerSecond>

```

```

    <QueryPerSecond>0.01</QueryPerSecond>
    <RequestHitRate>0.0</RequestHitRate>
    <TimeStamp>2014-11-22T17:00:00Z</TimeStamp>
  </CDNMonitorData>
  <CDNMonitorData>
    <AverageObjectSize>859.833333333333</AverageObjectSize>
    <BytesHitRate>0.0</BytesHitRate>
    <BytesPerSecond>91</BytesPerSecond>
    <QueryPerSecond>0.01</QueryPerSecond>
    <RequestHitRate>0.0</RequestHitRate>
    <TimeStamp>2014-11-19T04:00:00Z</TimeStamp>
  </CDNMonitorData>
</MonitorDatas>
<DomainName>news.ifeng.com</DomainName>
<EndTime>2014-11-24T00:00:00Z</EndTime>
<MonitorInterval>3600</MonitorInterval>
<StartTime>2014-11-15T00:00:00Z</StartTime>
<RequestId>27D39332-8ED8-4D23-97E4-3C9A1DB07E23</RequestId>
</DescribeCdnMonitorDataResponse>

```

Log Information Interface

DescribeCdnDomainLogs

Description

Obtains the download address for the original access log of the specified domain name. Note:Log content is retained for a maximum of 2 weeks.

Request Parameters

Parameter	Type	Required	Description
Action	String	Yes	Operator interface name, required parameter, values:DescribeCdnDomainLogs
DomainName	String	Yes	Domain name (only supports single queries)
LogDay	String	No	The log day to be obtained, format:

			yyyy-MM-dd, set to the current day by default
--	--	--	---

Return Parameters

Name	Type	Description
DomainName	String	Domain Name
Items	LogDetail	The data composed of LogDetail

Specific Error Codes

ErrorCode	Message	HTTP Return Code
OperationDenied	Your account does not open CDN service yet.	403
InvalidParameter	The specified value of parameter <parameter name> is not valid.	400
InvalidDomainName.NotFound	Your domain is on our recodes	404

Examples

Request example

```
https://cdn.aliyuncs.com?Action=DescribeCdnDomainLogs&DomainName=gc.ggter.com&LogDay=2015-05-24&<Common Request Parameter>
```

Return example

```
{
  "DomainLogModel": {
    "DomainName": "gc.ggter.com",
    "Items": {
      "DomainLogDetail": [
        {
          "EndTime": "2015-05-23T04:00:00Z",
          "LogName": "gc.ggter.com_2015_05_23_1100_1200.gz",
          "LogPath": "cdnlog.cn-hangzhou.oss.aliyun-inc.com/gc.ggter.com/2015_05_23/gc.ggter.com_2015_05_23_1100_1200.gz?OSSAccessKeyId\u003d3xmgf7JheOfOTUTf\u0026Expires\u003d1432539994\u0026Signature\u003d7Ly4ccKN3afzAGYyWDbxBcOcn2I%3D",
          "LogSize": 257,

```



```
{
  "StartTime": "2015-05-23T03:00:00Z",
},
{
  "EndTime": "2015-05-23T08:00:00Z",
  "LogName": "gc.ggter.com_2015_05_23_1500_1600.gz",
  "LogPath": "cdnlog.cn-hangzhou.oss.aliyun-inc.com/gc.ggter.com/2015_05_23/gc.ggter.com_2015_05_23_1500_1600.gz?OSSAccessKeyId\u003d3xmgf7JheOfOTUTf\u0026Expires\u003d1432539994\u0026Signature\u003ddMv7VqPqZHXVbKPmorGIvylC66c%3D",
  "LogSize": 194,
  "StartTime": "2015-05-23T07:00:00Z",
},
{
  "EndTime": "2015-05-23T14:00:00Z",
  "LogName": "gc.ggter.com_2015_05_23_2100_2200.gz",
  "LogPath": "cdnlog.cn-hangzhou.oss.aliyun-inc.com/gc.ggter.com/2015_05_23/gc.ggter.com_2015_05_23_2100_2200.gz?OSSAccessKeyId\u003d3xmgf7JheOfOTUTf\u0026Expires\u003d1432539994\u0026Signature\u003dFpSQCbNcxCBYIxKVokC8mGghUQ%3D",
  "LogSize": 258,
  "StartTime": "2015-05-23T13:00:00Z",
}
]
}
},
"RequestId": "1805F349-0A2B-41D9-B4AD-33632AFC27F1"
}
```

Data Type

MonitorDataItem Data Type

Description

The MonitorDataItem data type.

Node Name

MonitorDataItem

Subnode

Name	Type	Description
------	------	-------------

TimeStamp	String	Current statistics timestamp, UTC time
QueryPerSecond	String	Total QPS size
BytesPerSecond	String	Amount of bandwidth
BytesHitRate	String	Byte hit rate
RequestHitRate	String	Request hit rate
AverageObjectSize	String	Average response size (bytes)

Domain Data Type

Description

The Domain data type.

Node Name

Domain

Subnode

Name	Type	Description
DomainName	String	Refresh returned task ID
Status	String	The statuses are online offline configuring one of configure_failed statuses

TaskItem Data Type

Description

The TaskItem data type.

Node Name

TaskItem

Subnode

Name	Type	Description
TaskId	String	Task Id.
ObjectPath	String	Refresh object path
Status	String	Pending Refreshing Failed one of Complete statuses. Pending:Indicates the refresh is starting Refreshing:Refreshing Failed: Refresh failed Complete:Refresh successful
CreationTime	DateTime	Task item creation time, UTC time

LogDetail Data Type

Description

The LogDetail data type.

Node Name

LogDetail

Subnode

Name	Type	Description
LogName	String	Log name
LogPath	String	Log download URL
LogSize	Long	Log size
StartTime	String	Log start time, GMT time format

EndTime	String	Log end time, GMT time format
---------	--------	-------------------------------

Appendix

Error Code Table

Client Errors

Error Code	Error Message	HTTP Status Code
OperationDenied	Your account does not open CDN service yet.	403
InsufficientBalance	Your account does not have enough balance.	400
Forbidden.NotVerified	Your account is not verified yet.	403
UnsupportedOperation	The specified action is not supported.	400
NoSuchVersion	The specified version does not exist.	400
UnsupportedParameter	The parameter <parameter name> is not supported.	400
MissingParameter	The input parameter <parameter name> that is mandatory for processing this request is not supplied.	400
InvalidParameter	The specified parameter <parameter name> is not valid.Or The specified image does not support the specified instance type.	400
Throttling	Request was denied due to request throttling.	400
InvalidAccessKeyId.NotFound	The Access Key ID provided does not exist in our records.	404
Forbidden	User not authorized to operate on the specified resource.	403
Forbidden.RiskControl	This operation is forbidden by Aliyun Risk Control system.	403

Forbidden.AccessTooManyOthersResource	This operator is forbidden because too many other one's resource to be accessed.	403
SignatureDoesNotMatch	The signature we calculated does not match the one you provided. Please refer to the API reference about authentication for details.	403
SignatureNonceUsed	The request signature nonce has been used.	400
IdempotentParameterMismatch	Request uses a client token in a previous request but is not identical to that request.	400
ChargeTypeViolation	Operations on this kind of resources are not permitted.	403
InsufficientBalance	Your account does not have enough balance.	400
QuotaExceeded	Living instances quota exceeded.	400
OperationDenied	Specified operation is denied as your resource is locked for security reasons.	403
RiskControl.Refused	Your action was refused by RiskControl.	400
QuotaExceeded.Snapshot	Snapshot quota exceeded.	400
QuotaExceeded.Image	Image quota exceeded.	400

Server Errors

Error Code	Error Message	HTTP Status Code
InternalServerError	The request processing has failed due to some unknown error, exception or failure.	500
ServiceUnAvailable	The request has failed due to a temporary failure of the server.	503

How to Call Interfaces

The CDN service interface is called by sending an HTTP request to the CDN server (you can send it through HTTP or HTTPS channels) and receiving the CDN server's response to this request. After the CDN server receives a user request, it must perform authentication and parameter verification on the

request. After all verifications are successful, it submits or completes the associated operation based on the parameters specified for the request. Then, it returns the processing results to the caller in the form of HTTP response.

Request Composition

Requests are composed of the following parts:

- HTTP method - Currently, all CDN service interfaces only support 'GET' method calls.
- Request URL - The request's service address, name of the operation to be executed, operation parameters, and common request parameters are included in the request URL.
- Server address: The CDN service domain names are <http://cdn.aliyuncs.com/> and <https://cdn.aliyuncs.com/>. In order to ensure the security of the request, we strongly recommend that you use an HTTPS channel. (HTTPS has an added SSL layer for encrypted communications and can prevent communication interception leading to the leakage of sensitive information.)
- Operation name: Each interface requires that the name of the operation to be executed be specified, i.e. the Action parameter.
- Operation parameter: Different operation parameters must be set for different operations to be executed. For details, see the instructions for each interface.
- Common request parameters: Parameters such as TimeStamp and Signature must be included in each request.

For the server to correctly verify the user's authentication and authorize request execution, the request must be signed before submission for processing. For signature rules, refer to the signature mechanism section.

After the server finishes processing the request, it will return the response results. Response results are divided into successful results and error messages. For an illustration of the format, refer to the following example for JSON result returned:

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216",
  /* Return Result Data*/
}
```

The returned results section. The client can parse the response message body to obtain the execution results.

Call Example

Using the DescribeCdnService interface as an example:

The corresponding Action is DescribeCdnService. After adding all the common request parameters (except Signature), the request URL will be (for ease of reading, this is the URL before URL encoding):

```
http://cdn.aliyuncs.com/?TimeStamp=2012-12-26T10:33:56Z&Format=XML&AccessKeyId=testid&Action=DescribeCdnService &SignatureMethod=HMAC-SHA1&SignatureNonce=NwDAxvLU6tFE0DVb&Version=2013-01-10&SignatureVersion=1.0
```

According to the signature calculation rules, the Canonicalized Query String is constructed first, as shown below:

```
http://cdn.aliyuncs.com/?TimeStamp=2012-12-26T10:33:56Z&Format=XML&AccessKeyId=testid&Action=DescribeCdnService &SignatureMethod=HMAC-SHA1&SignatureNonce=NwDAxvLU6tFE0DVb&Version=2013-01-10&SignatureVersion=1.0
```

Then, StringToSign is constructed as a signature string with a value:

```
GET&%2F&AccessKeyId%3Dtestid%26Action% DescribeCdnService
%26Format%3DXML%26SignatureMethod%3DHMAC-
SHA1%26SignatureNonce%3DNwDAxvLU6tFE0DVb%26SignatureVersion%3D1.0%26TimeStamp%3D2012-12-
26T10%253A33%253A56Z%26Version%3D2013-01-10
```

The following Java sample code demonstrates how to add common request parameters, how to construct the Canonicalized Query String from the request parameters, and how to construct the StringToSign. This example assumes that all request parameters are placed in a Map <String, String> object and the Access Key ID is "testid".

```
final String HTTP_METHOD = "GET";
.....
```

In this example, please note that the TimeStamp parameter must comply with the ISO8601 norms. Furthermore, please note that UTC time is used. Otherwise, the request will encounter an error. The following sample code demonstrates how to generate a compliant TimeStamp string:

```
private static final String ISO8601_DATE_FORMAT = "yyyy-MM-dd'T'HH:mm:ss'Z'";

private static String formatIso8601Date(Date date) {
    SimpleDateFormat df = new SimpleDateFormat(ISO8601_DATE_FORMAT);
    df.setTimeZone(new SimpleTimeZone(0, "GMT"));
    return df.format(date);
}
```

When generating a Canonicalized Query String (the canonicalizedQueryString variable in the example) and StringToSign, both must be encoded. The encoding rules are described in detail in the signature mechanism section. The following sample code demonstrates how to use the java.net.URLEncoder class for encoding:

```
private static final String ENCODING = "UTF-8";

private static String percentEncode(String value)
    throws UnsupportedEncodingException{
```

```

return value != null ?
    URLEncoder.encode(value, ENCODING).replace("+", "%20")
    .replace("*", "%2A").replace("%7E", "~")
    : null;
}

```

If we assume the 'Access Key ID' is "testid", the 'Access Key Secret' is "testsecret", and the Key used for HMAC calculation is "testsecret&", the calculated signature value is:

```
SDFQNvyH5rtkc9T5Fwo8DOjw5hc=
```

Sample code for signature calculation (Java):

```

// The following is a sample code for signature calculation
final String ALGORITHM = "HmacSHA1";
final String ENCODING = "UTF-8";
key = "testsecret&";

Mac mac = Mac.getInstance(ALGORITHM);
mac.init(new SecretKeySpec(
    key.getBytes(ENCODING), ALGORITHM));
byte[] signData = mac.doFinal(
    stringToSign.getBytes(ENCODING));

String signature =
    new String(Base64.encodeBase64(signData));

```

After adding the Signature parameter, please perform URL encoding according to the RFC3986 rules and obtain

```

http://cdn.aliyuncs.com/?TimeStamp=2012-12-26T10%3A33%3A56Z&Format=XML&AccessKeyId=testid&Action=
DescribeCdnService &SignatureMethod=HMAC-
SHA1&RegionId=region1&SignatureNonce=NwDaxvLU6tFE0DVb&Version=2012-09-
13&SignatureVersion=1.0&Signature=SDFQNvyH5rtkc9T5Fwo8DOjw5hc%3d

```

Next, send an HTTP request to the above URL for a response to the request from the CDN server, as shown below:

none

By parsing this XML output, you can obtain an ID and LocalName list for all available regions. If, when submitting a request, the specified Format parameter is JSON, then the result will also be returned in the JSON format

How to Ensure Idempotence

If a request timeout or internal server error is encountered when calling the CreateInstance interface to create an ECS in the CDN, the client might try to resend the request. At this time, the client can

prevent the server from creating more instances than expected by providing the optional 'ClientToken' parameter. Providing this parameter will also ensure the idempotence of the request. 'ClientToken' is a unique, case sensitive string generated by the client that cannot exceed 64 ASCII characters.

If a user uses the same 'ClientToken' value to call the CreateInstance interface, the server will return identical request results, including the same InstanceId. Therefore, when the user encounters an error and tries again, by providing the same ClientToken value, he can ensure the CDN only creates one instance and that he obtains this InstanceId.

If the user provides a ClientToken that has already been used, but with different request parameters, the CDN will return the *IdempotentParameterMismatch* error code. However, you must note that the SignatureNonce, TimeStamp, and Signature parameters must be changed when trying to submit the request again. Because the CDN uses SignatureNonce to prevent replay attacks and TimeStamp to mark the time of each request, the duplicate request must provide different SignatureNonce and TimeStamp parameter values. This will also produce a different Signature value.

Generally, clients will only need to retry an operation if they encounter a 500 (InternetError) or 503 (ServiceUnAvailable) error or cannot receive a response. When 200 is returned, retrying the operation will give you the same results as the last time, but will not have any effect on the server status. When a 4xx error code is returned, unless the message explicitly says "try it later", retrying the operation will usually not be successful.

API Behavior for Accounts In Arrears

In the following list, "-" indicates no relation and "Normal Logic" indicates that the interface is executed and result returned based on the interface's normal logic.

Accounts in Arrears

Interface	Behavior	Description
OpenCdnService	Normal	
DescribeCdnService	Normal	OperationLocks will show a Financial lock
ModifyCdnService	Exception	Displays InsufficientBalance error code
RefreshObjectCaches	Exception	Displays InsufficientBalance error code
DescribeRefreshTask	Normal	
DescribeCdnMonitorData	Normal	