

Cloud Object Storage

API Documentation

Product Introduction



Tencent  
Cloud

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## API Documentation

## Introduction

The XML APIs of Tencent Cloud Object Storage (COS) service are a kind of lightweight interfaces without connection state. You can call these APIs to send requests and receive responses directly via http/https, in order to interact with the backend of Tencent Cloud Object Storage. The contents of both requests and responses for these APIs are in XML format.

**Note:**

Currently, the available Regions of COS have different values for XML APIs and JSON APIs, and the corresponding region fields are required when using different APIs and their SDKs. For more information, see the document [Available Regions](#).

In order to use the XML APIs of Tencent Cloud Object Storage service more efficiently, please read [Request Signature](#) carefully before reviewing other API documents.

## Terminology Information

Some main concepts and terms appear in the text:

Name	Description
APPID	A unique resource ID in user dimension owned by a developer when accessing COS services, which is used to indicate resources
SecretId	The project identity ID owned by a developer, which is used for identity authentication
SecretKey	The project identity key owned by a developer
Bucket	The container used to store data in COS
Object	The specific file stored in COS, which is the basic entity that is stored
Region	The region information in domain name. For enumerated values, please see the document <a href="#">Available Regions</a> , such as: ap-beijing, ap-

Name	Description
	hongkong, eu-frankfurt, etc.
ACL	Access Control List, which refers to the access control information list of specified Buckets or Objects
CORS	Cross-Origin Resource Sharing, which refers to the HTTP request for resources from a different domain
Multipart Uploads	Refers to a multipart upload mode provided by Tencent Cloud COS service for uploading files

## Quick Start

To use the Tencent Cloud object storage APIs, you need to follow these steps first:

1. Purchase the Tencent Cloud Object Storage (COS) service
2. Create a Bucket in Tencent Cloud [Object Storage Console](#)
3. Obtain APPID, SecretId, and SecretKey on the console [Personal API Key](#) page
4. Write an algorithm program for requesting signature (or use any of server-side SDKs)
5. Calculate the signature and call API to perform operation

## APIs of Other Versions

### JSON APIs

[JSON API](#) is the API provided by Tencent Cloud COS service for users to access COS before launching the XML API, and the upload domain name is [Region].file.myqcloud.com. JSON APIs and standard XML APIs have the same underlying infrastructure, and thus data interoperability is possible and they can be cross-used. However, they're not compatible with each other and have different domains. After the XML API service of Tencent Cloud COS is launched, it is recommended that you use the XML API interface. JSON APIs will be kept in a state of maintenance, and they will be available for use but no new features will be added.

## Common Request Headers

### Description

This document describes Common Request Headers to be used when using APIs. The headers described below will not be discussed in later API documents.

### List of Request Headers

Header Name	Description	Type	Required
Authorization	Contain authentication information, signature information used to verify the validity of requests. This header is not required for files that can be read by public users.	String	No
Content-Length	HTTP request content length defined in RFC 2616 (bytes), commonly used in API operations of PUT type.	String	No
Content-Type	HTTP request content type defined in RFC 2616 (MIME), for example: text/plain	String	No
Content-MD5	128-bit content MD5 check value encoded using Base64, defined in RFC 1864. This header is used to check whether the file content has changed.	String	No

Header Name	Description	Type	Required
Date	GMT time defined in RFC 1123, for example: Wed, 30 Mar. 2016 23:00:00 GMT.	String	No
Expect	If Expect: 100-continue is used, the request content will not be sent until the receipt of response from server. This option can be used to check whether a header is valid, without the need to send the data content. Valid value: 100-continue.	String	No
Host	Request host, in a form of *.cos.myqcloud.com	String	Yes

## Common Returned Headers

### Description

This document describes Common Response Headers that will appear when using APIs. The headers described below will not be explained in later API documents.

### List of Response Headers

Header Name	Description	Type
Content-Length	HTTP request content length defined in RFC 2616 (Bytes)	String
Content-Type	HTTP request content type defined in RFC 2616 (MIME)	String
Connection	Declare connection status between client and server. Enumerated values: keep-alive, close	Enum
Date	Response time of the server, subject to the GMT time defined in RFC 1123.	String
Etag	ETag (Entity Tag) is an information tag used to identify Object content upon creation of Object. This parameter may return values other than MD5, depending on different situations of the requests. ETag value can be used to check whether the Object content has changed.	String
Server	Name of the server that created the request. Default value: tencent-cos	String
x-cos-request-id	When a request is sent, the server	String



Header Name	Description	Type
	will automatically generate an ID for the request.	
x-cos-trace-id	When a request encounters an error, the server will automatically generate an ID for the error.	String

## Error Codes

### Overview

This document describes the error codes and corresponding error messages returned when a request encounters an error.

### Format of Returned Error Message

#### Response Header

Content-Type: application/xml

Corresponding HTTP status code: 3XX, 4XX, 5XX

#### Response Content

##### Syntax Format

```
<?xml version="1.0" encoding="UTF-8"?>
<Error>
  <Code>[Error code]</Code>
  <Message>[Error message]</Message>
  <Resource>[Resource Address]</Resource>
  <RequestId>[Request ID]</RequestId>
  <TraceId>[Error ID]</TraceId>
</Error>
```

##### Element Description

Element Name	Description	Type
Error	Contain all error information.	Container
Code	Error codes are used to locate a	String

Element Name	Description	Type
	unique error condition and determine scenario of the error. Error codes are described in detail below.	
Message	Contain detailed error information.	String
Resource	Resource address: Bucket address or Object address.	String
RequestId	The server will automatically generate a unique ID for the request when the request is sent. When a problem occurs, request-id can help COS locate the problem faster.	String
TraceId	When a request encounters an error, the server will automatically generate a unique ID for the error. When a problem occurs, trace-id can help COS locate the problem faster. When a request encounters an error, one trace-id corresponds to one request-id.	String

## Error Codes

### 3XX Errors

Error Code	Description	HTTP Status Code
PermanentRedirect	This resource has been moved to another location permanently, please use HTTP Location to redirect to the new location	301 Moved Permanently

Error Code	Description	HTTP Status Code
TemporaryRedirect	This resource has been moved to another location temporarily, please use HTTP Location to redirect to the new location	302 Moved Temporarily
Redirect	Temporary redirection	307 Moved Temporarily
TemporaryRedirect	You will be redirected temporarily during DNS update process	307 Moved Temporarily

#### 4XX Errors

Error Code	Description	HTTP Status Code
BadDigest	The provided x-cos-SHA-1 value is different from the SHA-1 value of the file received by the server end	400 Bad Request
EntityTooSmall	The size of the file to be uploaded is smaller than the required minimum size, which is common for multipart upload	400 Bad Request
EntityTooLarge	The size of the file to be uploaded is larger than the required maximum size	400 Bad Request
IncompleteBody	The actual content length of the request is inconsistent with the specified Content-Length	400 Bad Request
IncorrectNumberOfFilesInPostRequest	Only one file is allowed to be uploaded at a time for a Post request	400 Bad Request
InlineDataTooLarge	The size of inline data is larger than the required maximum size	400 Bad Request
InvalidArgument	URI is invalid	400 Bad Request
InvalidBucketName	Bucket name is invalid	400 Bad Request

Error Code	Description	HTTP Status Code
InvalidDigest	x-cos-SHA-1 value is invalid	400 Bad Request
InvalidPart	Part is missing or SectionID is invalid	400 Bad Request
InvalidPolicyDocument	Policy configuration file is invalid	400 Bad Request
InvalidURI	URI is invalid	400 Bad Request
KeyTooLong	File path is too long	400 Bad Request
MalformedACLError	Described ACL policy does not comply with XML syntax	400 Bad Request
MalformedPOSTRequest	The Body content of the POST request is invalid	400 Bad Request
MalformedXML	"body" in XML format does not comply with XML syntax	400 Bad Request
MaxMessageLengthExceeded	Request is too long	400 Bad Request
MaxPostPreDataLengthExceededError	The data prefix of the POST request is too long, this usually happens for multipart upload operations	400 Bad Request
MatadataTooLarge	The size of metadata is larger than the required maximum size	400 Bad Request
MissingRequestBodyError	Request Body is missing	400 Bad Request
MissingSecurityHeader	Required Header is missing	400 Bad Request
MissingContentMD5	Content-MD5 is missing in request header	400 Bad Request
MissingAppid	Appid is missing in request header	400 Bad Request
MissingHost	Host is missing in request header	400 Bad Request
RequestIsNotMultiPartContent	The Content-Type of the POST request is invalid	400 Bad Request
RequestTimeOut	Read timeout. Check whether the network is too slow or number of concurrent file uploads is too large	400 Bad Request
TooManyBucket	The number of Buckets exceeded	400 Bad Request

Error Code	Description	HTTP Status Code
	the limit (200)	
UnexpectedContent	Relevant content is not supported for the request	400 Bad Request
UnresolvableGrantByUID	The provided UID does not exist	400 Bad Request
UserKeyMustBeSpecified	The path must be specified for the POST operation performed against a Bucket	400 Bad Request
AccessDenied	Access denied due to invalid signature or permission	403 Forbidden
AccountProblem	This operation has been denied by your account	403 Forbidden
InvalidAccessKeyId	AccessKey does not exist	403 Forbidden
InvalidObjectState	Request content is in conflict with Object attribute	403 Forbidden
InvalidSecurity	Signature string is invalid	403 Forbidden
RequestTimeTooSkewed	Request time is beyond the valid period of permission	403 Forbidden
SignatureDoesNotMatch	Incorrect signature	403 Forbidden
NoSuchBucket	Specified Bucket does not exist	404 Not Found
NoSuchUpload	Specified multipart upload does not exist	404 Not Found
NoSuchBucket	Specified Bucket policy does not exist	404 Not Found
MethodNotAllowed	The HTTP method is not supported by this resource	405 Method Not Allowed
BucketAlreadyExists	BucketName specified by CreateBucket is already in use. Select another BucketName	409 Conflict
BucketNotEmpty	Delete files and unfinished multipart upload tasks before performing DeleteBucket operation	409 Conflict
InvalidBucketState	Bucket status conflicts with	409 Conflict

Error Code	Description	HTTP Status Code
	operation request, for example, multi-version management conflicts with cross-region duplication	
actionAborted	This operation is not supported by specified resource	409 Conflict
MissingContentLength	Header Content-Length is missing	411 Length Required
PreconditionFailed	Precondition matching failed	412 Precondition
InvalidRange	Requested file range is invalid	416 Requested Range Not Satisfiable
InvalidSHA1Digest	sha1 of the request content is invalid	400 Bad Request
NoSuchUpload	"uploadid" specified when performing multipart upload operation does not exist	400 Bad Request
InvalidPart	Part is missing	400 Bad Request
InvalidPartOrder	The numbers of uploaded parts are discontinuous	400 Bad Request
ObjectNotAppendable	Specified file is not appendable	400 Bad Request
AppendPositionErr	Append: file length is inconsistent with position	400 Bad Request
NoSuchVersion	Specified version does not exist	400 Bad Request
NoLifecycle	Lifecycle does not exist	400 Bad Request
PreconditionFailed	Precondition matching failed	400 Bad Request
UnexpectedContent	Relevant content is not supported for the request	400 Bad Request
MultiBucketNotSupport	Only one bucket is configured for cross-region duplication	400 Bad Request
NotSupportedStorageClass	Specified storage type is invalid	400 Bad Request
InvalidAccessKeyId	AccessKey does not exist	403 Forbidden
ExpiredToken	Signature string expired	403 Forbidden

## 5XX Errors

Error code	Description	HTTP status code
InternalServerError	Internal error occurred on the server end	500 Internal Server
NotImplemented	A method in the Header cannot be implemented	501 Not Implemented
ServiceUnavailable	Internal error on the server. Try again	503 Service Unavailable
SlowDown	Please reduce access frequency	503 Slow Down

## Other Errors

Error code	Description	HTTP status code
InvaildAddressingHeader	Anonymous access is required	N/A



## Overview

Below are Tencent Cloud Object Storage (COS) service related APIs and their descriptions:

### About Service Operation

API	Description
<a href="#">Get Service</a>	List all Buckets under this account

### About Bucket Operations

API	Description
<a href="#">Get Bucket</a>	List some or all of the Objects under the specified Bucket
<a href="#">Get Bucket ACL</a>	Obtain the ACL table of the Bucket
<a href="#">Get Bucket CORS</a>	Obtain the cross-domain access configuration of the Bucket
<a href="#">Get Bucket Location</a>	Obtain the region of the Bucket
<a href="#">Get Bucket Lifecycle</a>	Read lifecycle management configurations
<a href="#">Put Bucket</a>	Create a Bucket under the specified account
<a href="#">Put Bucket ACL</a>	Write to the ACL table of the Bucket
<a href="#">Put Bucket CORS</a>	Configure the cross-domain access permission of the Bucket
<a href="#">Put Bucket Lifecycle</a>	Set the features for lifecycle management
<a href="#">Delete Bucket</a>	Delete the Bucket under the specified account
<a href="#">Delete Bucket CORS</a>	Delete the cross-domain access configuration of the Bucket
<a href="#">Delete Bucket Lifecycle</a>	Delete lifecycle management
<a href="#">Head Bucket</a>	Confirm whether a specified Bucket exists under the specified account
<a href="#">List Multipart Uploads</a>	Query the ongoing multipart upload

### About Object Operations

API	Description
<a href="#">Append Object</a>	Upload an Object (file/object) to the specified Bucket via multipart upload method
<a href="#">Get Object</a>	Download an Object (file/object) to the local computer
<a href="#">Get Object ACL</a>	Obtain the ACL table of the Object (file/object)
<a href="#">Put Object</a>	Upload an Object (file/object) to the specified Bucket
<a href="#">Put Object ACL</a>	Write to the ACL table of the Object (file/object)
<a href="#">Delete Object</a>	Delete the specified Object (file/object) in the Bucket
<a href="#">Delete Multiple Object</a>	Delete Objects (files/objects) in batch in the Bucket
<a href="#">Head Object</a>	Obtain the meta information of the Object
<a href="#">Options Object</a>	A preflight request for cross-domain access
<a href="#">Initiate Multipart Upload</a>	Initialize the Multipart Upload operation
<a href="#">List Multipart Uploads</a>	Multipart upload files
<a href="#">List Parts</a>	Query the uploaded parts in a specific multipart upload operation
<a href="#">Complete Multipart Upload</a>	Complete the multipart upload of the entire file
<a href="#">Abort Multipart Upload</a>	Abort a multipart upload operation and delete the uploaded parts
<a href="#">Put Object Copy</a>	Copy a file from the source path to the destination path

## Service APIs

### Bucket APIs

#### Delete Bucket CORS

#### Description

Delete Bucket CORS API request is used to delete configuration information of cross-domain access.

#### Request

Syntax:

DELETE /?cors HTTP/1.1

Host: <Bucketname-APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#))

#### Request Line

DELETE /?cors HTTP/1.1

This API allows DELETE request.

#### Request Header

##### Common Header

This request operation is implemented using common request header. For more information, please see [Common Request Headers](#) chapter.

Non-common Header

No particular request header information for this request operation.

## Request Body

The request body of this request is null.

## Response

### Response Header

Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

Specific Response Header

No particular response header for this response.

### Response Body

Null is returned for the response body.

## Practical Case

### Request

DELETE /?cors HTTP/1.1

Host: arlenhuangtestsgnoverion-1251668577.cos.ap-beijing.myqcloud.com

Date: Tue, 23 Oct 2016 21:32:00 GMT

Authorization:

q-sign-algorithm=sha1&q-

ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj

fGFO&q-sign-time=1484816036;32557712036&q-key-time=1484816036;32557712036&q-header-list=host&q-url-param-list=cors&q-signature=e92eecbf0022fe7e5fd39b2c500b22da062be50a

## Response

HTTP/1.1 204 No Content

Content-Type: application/xml

Content-Length: 405

Connection: keep-alive

Date: Tue, 23 Oct 2016 21:32:00 GMT

Server: tencent-cos

x-cos-request-id: NTg4MDdlYWVfOTgxZjRlXzZhYTlfZjAz

x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVvMDAxODczNTBmNjMwZmQ0MTZkMjg0NjlkNTYyNmY4ZTRkZTk0N2M2MTdkZGZlMGNhOWQyYjk3MWNmNWNkYzFhMjQzNzRiZTE1NjgzNzFhOGI5M2EwZDMYNGM4Y2ZmMzhiNTllMjk=

## Get Bucket ACL

### Description

Get Bucket ACL API is used to obtain ACL (access control list) of Bucket, that is, the access permission control list of Bucket. Only the Bucket owner has permission to use this API.

### Request

Syntax:

GET /?acl HTTP/1.1

Host: <BucketName>-<APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#) chapter)

### Request Line

GET /?acl HTTP/1.1

This API allows GET request.

### Request Header

Common Header

This request operation is implemented using common request header. For more information, please

see [Common Request Headers](#) chapter.

## Non-common Header

### Required Header

This request operation is implemented using the following required headers:

Name	Description	Type	Required
Authorization	Signature string	String	Yes

## Request Body

The request body of this request is null.

## Response

### Response Header

#### Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

#### Specific Response Header

No particular response header for this response.

## Response Body

application/xml data is returned for the response body, including the complete node data, as show below:

```
<AccessControlPolicy>
```

```
<Owner>
```

```

<ID>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </ID>
<DisplayName>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </DisplayName>
</Owner>
<AccessControlList>
<Grant>
<Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="RootAccount">
<ID>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </ID>
<DisplayName>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </DisplayName>
</Grantee>
<Permission> </Permission>
</Grant>
<Grant>
<Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="RootAccount">
<ID>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </ID>
<DisplayName>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </DisplayName>
</Grantee>
<Permission> </Permission>
</Grant>
</AccessControlList>
</AccessControlPolicy>

```

Detailed data content is shown as below:

Node Name (Keyword)	Parent Node	Description	Type
AccessControlPolicy	None	Container for saving results of Get Bucket ACL	Container

Content of Container node AccessControlPolicy:

Node Name (Keyword)	Parent Node	Description	Type
Owner	AccessControlPolicy	Information of Bucket owner	Container
AccessControlList	AccessControlPolicy	Information of	Container



Node Name (Keyword)	Parent Node	Description	Type
		authorized account and permissions	

Content of Container node Owner:

Node Name (Keyword)	Parent Node	Description	Type
ID	AccessControlPolicy		
	.Owner		

## Get Bucket CORS

### Description

Get Bucket CORS is used to read cross-domain access configurations.

### Request

#### Request Syntax

GET /?cors HTTP 1.1

Host:<Bucketname>-<UID>.<Region>.myqcloud.com

Date:date

Authorization: Auth

#### Request Parameter

No particular request parameters

#### Request Header

No particular request headers. Please refer to "Common Request Headers" for other headers

#### Request Content

No request content

### Returned Value

#### Response Header

No particular response headers. Please refer to "Common Response Headers" for other headers

## Response Content

Name	Description	Type	Required
CORSConfiguration	Describe all information regarding cross-domain configurations, may contain up to 100 CORSRule entries	Container	Yes
CORSRule	Information of a single configuration Parent node: CORSRule	Container	Yes
ID	Name of the rule, optional Parent node: CORSRule	String	No
AllowedMethod	Allowed HTTP operations, enumerated values include Get, Put, Head, Post, Delete Parent node: CORSRule	Enum	Yes
AllowedOrigin	Allowed access source. Wildcard "*" is supported Parent node: CORSRule	String	Yes
AllowedHeader	When sending an OPTIONS request, notify the server end about which custom HTTP request headers are allowed to be used by subsequent requests Parent node: CORSRule	String	No
MaxAgeSeconds	Configure the valid period for the results obtained by OPTIONS	Integer	No

Name	Description	Type	Required
	request Parent node: CORSRule		
ExposeHeader	Configure what kind of custom header information from the server end can be received by the browser Parent node: CORSRule	String	No

<CORSConfiguration>

<CORSRule>

<ID> </ID>

<AllowedOrigin> </AllowedOrigin>

<AllowedMethod> </AllowedMethod>

<AllowedHeader> </AllowedHeader>

<MaxAgeSeconds> </MaxAgeSeconds>

<ExposeHeader> </ExposeHeader>

</CORSRule>

<CORSRule>

...

</CORSRule>

...

</CORSConfiguration>

## Example

### Request

GET /?cors HTTP/1.1

Host:arlenhuangtestsgnoverversion-1251668577.sg.myqcloud.com

Authorization:q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfGFO&q-sign-time=1484815944;32557711944&q-key-time=1484815944;32557711944&q-header-list=host&q-url-param-list=cors&q-signature=a2d28e1b9023d09f9277982775a4b3b705d0e23e

## Response

HTTP/1.1 200 OK

Content-Type: application/xml

Content-Length: 345

Connection: keep-alive

Date: Thu Jan 19 16:52:31 2017

Server: tencent-cos

x-cos-request-id: NTg4MDdlNGZfNDYyMDRlXzM0YWFFZTBh

<CORSConfiguration>

<CORSRule>

<ID>1234</ID>

<AllowedOrigin>http://www.qq.com</AllowedOrigin>

<AllowedMethod>PUT</AllowedMethod>

<AllowedHeader>x-cos-meta-test</AllowedHeader>

<ExposeHeader>x-cos-meta-test1</ExposeHeader>

<MaxAgeSeconds>500</MaxAgeSeconds>

</CORSRule>

</CORSConfiguration>

## Object APIs

### Abort Multipart Upload

#### Description

Abort Multipart Upload is used to abort a multipart upload operation and delete parts that are already uploaded. When Abort Multipart Upload is called, the Upload Parts returns failure to any request that is using the Upload Parts. "404 NoSuchUpload" is returned if the UploadID does not exist.

#### Note:

It is recommended that you complete multipart upload in time or abort the upload operation for the reason that parts that have been uploaded but not aborted can take up storage, incurring cost.

#### Request

Syntax:

DELETE /ObjectName?uploadId=UploadId HTTP/1.1

Host: <BucketName>-<APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#) chapter)

#### Request Line

---

DELETE /ObjectName?uploadId=UploadId HTTP/1.1

This API allows DELETE request.

## Request Parameters

Example of request line that contains all request parameters.

DELETE /ObjectName?uploadId=UploadId HTTP/1.1

See the details below:

Parameter Name	Description	Type	Required
UploadID	Indicate the ID of current multipart upload. You can obtain an uploadid when you use the API "Initiate Multipart Upload" to initiate multipart upload. This ID exclusively identifies this multipart data, and the relative position of this multipart in the entire file	String	Yes

## Request Header

### Common Header

This request operation is implemented using common request header. For more information, please see [Common Request Headers](#) chapter.

## Non-common Header

No particular request header information for this request operation.

## Request Body

The request body of this request is null.

## Response

### Response Header

#### Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

#### Specific Response Header

No particular response header for this request operation.

### Response Body

The response body of this request is null.

## Practical Case

### Request

DELETE

/ObjectName?uploadId=1484727270323

ddb949d528c629235314a9ead80f0ba5d993a3d76b460e6a9cceb9633b08e HTTP/1.1

Host: arlenhuangtestsgnoverion-1251668577.cos.ap-beijing.myqcloud.com



Date: Tue, 26 Oct 2013 21:22:00 GMT

Authorization:

q-sign-algorithm=sha1&q-

ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj

fGFO&q-sign-time=1484728626;32557624626&q-key-time=1484728626;32557624626&q-header-lis  
t=host&q-url-param-list=uploadId&q-signature=2d3036b57cade4a257b48a3a5dc922779a562b18

## Response

HTTP/1.1 200 OK

Content-Type: application/xml

Content-Length: 0

Connection: keep-alive

Date: Tue, 26 Oct 2013 21:22:00 GMT

Server: tencent-cos

x-cos-request-id: NTg3ZjI5MzlfOTgxZjRlXzZhYjNfMjBh

## Complete Multipart Upload

### Description

Complete Multipart Upload API request is used to complete the entire multipart upload. You must use this API to complete the multipart upload operation of the entire file when you have uploaded all parts using Upload Parts. When using this API, you need to provide the PartNumber and ETag for every part in request Body, to verify the accuracy of parts.

The merging of parts is required and takes several minutes, thus COS returns status code 200 immediately when the merging process begins. During merging, COS may return blank information periodically to keep the connection active, until the merging process completes, upon which the COS will return the content of the merged parts in Body.

When this API is called, "400 EntityTooSmall" is returned if the uploaded part is smaller than 1 MB.

"400 InvalidPart" is returned if the numbers of uploaded parts are discontinuous.

"400 InvalidPartOrder" is returned if the part information entries in the request Body are not sorted in ascending order according to their numbers.

"404 NoSuchUpload" is returned if the UploadId does not exist when this API is called.

#### Note:

It is recommended that you complete multipart upload in time or abort the upload operation for the reason that parts that have been uploaded but not aborted can take up storage, incurring cost.

### Request

Syntax:

POST /ObjectName?uploadId=UploadId HTTP/1.1

Host: <BucketName>-<APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Content-length: Size

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#) chapter)

## Request Line

POST /ObjectName?uploadId=UploadId HTTP/1.1

This API allows POST request.

Request parameter

Example of request line that contains all request parameters.

POST /ObjectName?uploadId=UploadId HTTP/1.1

See the details below:

Parameter Name	Description	Type	Required
uploadId	Indicate the ID of current multipart upload. You can obtain an uploadid when you use the API "Initiate Multipart Upload" to initiate multipart upload. This ID exclusively identifies this multipart	String	Yes

Parameter Name	Description	Type	Required
	data, and the relative position of this multipart in the entire file		

## Request Header

### Common Header

This request operation is implemented using common request header. For more information, please see [Common Request Headers](#) chapter.

### Non-common Header

No particular request header information for this request operation.

## Request Body

The specific nodes of the request body for this API request are:

```
<CompleteMultipartUpload>
  <Part>
    <PartNumber> </PartNumber>
    <ETag> </ETag>
  </Part>
  ...
</CompleteMultipartUpload>
```

Detailed data content is shown as below:

Node Name (Keyword)	Parent Node	Description	Type	Required
CompleteMultipart Upload	None	Used to describe all information of the	Container	Yes

Node Name (Keyword)	Parent Node	Description	Type	Required
		current multipart upload operation		

Content of Container node CompleteMultipartUpload:

Node Name (Keyword)	Parent Node	Description	Type	Required
Part	CompleteMultipartUpload	Used to describe information of every part in the current multipart upload operation	Container	Yes

Content of Container node Part:

Node Name (Keyword)	Parent Node	Description	Type	Required
PartNumber	CompleteMultipartUpload.Part	Part number	String	Yes
ETag	CompleteMultipartUpload.Part	MD5 algorithm check value for every part file	String	Yes

## Response

### Response Header

#### Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

## Specific Response Header

No particular response header for this response.

## Response Body

application/xml data is returned for the response body, including the complete node data, as show below:

```
<CompleteMultipartUploadResult>
  <Location> </Location>
  <Bucket> </Bucket>
  <Key> </Key>
  <ETag> </ETag>
</CompleteMultipartUploadResult>
```

Detailed data content is shown as below:

Node Name (Keyword)	Parent Node	Description	Type
CompleteMultipartUploa dResult	None	Indicate all the returned information	Container

Content of Container node CompleteMultipartUploadResult:

Node Name (Keyword)	Parent Node	Description	Type
Location	CompleteMultipartUploa dResult	Domain name for public network access of the created Object	URL
Bucket	CompleteMultipartUploa dResult	The target Bucket for multipart upload	String
Key	CompleteMultipartUploa dResult	Name of Object	String
ETag	CompleteMultipartUploa	MD5 algorithm check	String

Node Name (Keyword)	Parent Node	Description	Type
	dResult	value for the merged file	

## Practical Case

### Request

POST

/ObjectName?uploadId=1484728886e63106e87d8207536ae8521c89c42a436fe23bb58854a7bb5e87b7d77d4ddc48 HTTP/1.1

Host: arlenhuangtestsgnoverion-1251668577.cos.ap-beijing.myqcloud.com

Date: Wed, 18 Jan 2017 16:17:03 GMT

Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfGFO&q-sign-time=1484729794;32557625794&q-key-time=1484729794;32557625794&q-header-list=host&q-url-param-list=uploadId&q-signature=23627c8fddb3823cce4257b33c663fd83f9f820d

Content-Length: 155

Content-Type: application/x-www-form-urlencoded

### Response

HTTP/1.1 200 OK

Content-Type: application/xml

Content-Length: 277

Connection: keep-alive

Date: Wed, 18 Jan 2017 16:17:03 GMT

Server: tencent-cos

x-cos-request-id: NTg3ZjJIMjVfNDYyMDRIXzM0YzRfMjc1

<CompleteMultipartUploadResult>

<Location>

arlenhuangtestsgnoverion-1251668577.cos.ap-beijing.myqcloud.com/ObjectName</Location>

<Bucket>arlenhuangtestsgnoverion</Bucket>

<Key>ObjectName</Key>

```
<ETag>"3a0f1fd698c235af9cf098cb74aa25bc"</ETag>  
</CompleteMultipartUploadResult>
```



## Get Object ACL

### Description

Get Object ACL API is used to obtain access permission of an Object under a Bucket. Only the Bucket owner is allowed to perform the action.

### Request

Syntax:

GET /ObjectName?acl HTTP/1.1

Host: <BucketName>-<APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#) chapter)

### Request Line

GET /ObjectName?acl HTTP/1.1

This API allows GET request.

### Request Header

#### Common Header

This request operation is implemented using common request header. For more information, please

see [Common Request Headers](#) chapter.

## Non-common Header

### Required header

This request operation is implemented using the following required headers:

Name	Description	Type	Required
Authorization	Signature string	String	Yes

## Request Body

The request body of this request is null.

## Response

### Response Header

#### Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

#### Specific Response Header

No particular response header for this response.

## Response Body

application/xml data is returned for the response body, including the complete node data, as show below:

```
<AccessControlPolicy>
```

```
<Owner>
```

```

<ID>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </ID>
<DisplayName>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </DisplayName>
</Owner>
<AccessControlList>
<Grant>
<Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="RootAccount">
<ID>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </ID>
<DisplayName>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </DisplayName>
</Grantee>
<Permission> </Permission>
</Grant>
<Grant>
<Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="RootAccount">
<ID>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </ID>
<DisplayName>qcs::cam::uin/<OwnerUin>:uin/<SubUin> </DisplayName>
</Grantee>
<Permission> </Permission>
</Grant>
</AccessControlList>
</AccessControlPolicy>

```

Detailed data content is shown as below:

Node Name (Keyword)	Parent Node	Description	Type
AccessControlPolicy	None	Container for saving results of Get Object ACL	Container

Content of Container node AccessControlPolicy:

Node Name (Keyword)	Parent Node	Description	Type
Owner	AccessControlPolicy	Information of Object owner	Container
AccessControlList	AccessControlPolicy	Information of	Container

Node Name (Keyword)	Parent Node	Description	Type
		authorized account and permissions	

Content of Container node Owner:

Node Name (Keyword)	Parent Node	Description	Type
ID	AccessControlPolicy		
	.Owner		

## Initiate Multipart Upload

### Description

Initiate Multipart Upload request is used for the initialization of multipart upload. After the execution of this request, UploadId will be returned for the subsequent Upload Part requests.

### Request

Syntax:

POST /Object?uploads HTTP/1.1

Host: <BucketName>-<APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#) chapter)

### Request Line

POST /Object?uploads HTTP/1.1

This API allows POST request.

### Request Header

#### Common Header

This request operation is implemented using common request header. For more information, please

see [Common Request Headers](#) chapter.

#### Non-common Header

#### Recommended Header

This request operation is implemented using the following recommended request headers:

Name	Description	Type	Required
Cache-Control	The caching policy defined in RFC 2616, which will be saved as Object metadata.	String	No
Content-Disposition	The file name defined in RFC 2616, which will be saved as Object metadata.	String	No
Content-Encoding	The encoding format defined in RFC 2616, which will be saved as Object metadata.	String	No
Content-Type	The content type defined in RFC 2616, which will be saved as Object metadata.	String	No
Expires	The file name defined in RFC 2616, which will be saved as Object metadata.	String	No
x-cos-meta-*	The header information allowed to be defined by users, which will be returned as Object metadata. The size is limited to 2K.	String	No

Name	Description	Type	Required
X-cos-storage-class	Set the storage class of Object. Enumerated values: Standard, Standard_IA, Nearline. The default is Standard (this is only supported for South China region)	String	No

#### Permission-related headers

This request operation is implemented using header x-cos-acl in request PUT to set the access permission of Object. Object supports three access permissions: public-read-write, public-read and private. The default permission is private if not set. Users can also be clearly granted with permission of read, write or read-write separately. See the details below:

For more information on ACL, please see [Put Bucket ACL](#).

Name	Description	Type	Required
x-cos-acl	Define the ACL attribute of Object. Valid values: private, public-read-write, public-read. Default value: private	String	No
x-cos-grant-read	Grant read permission to the authorized user. Format: x-cos-grant-read: id=" ", id=" "; when you need to authorize a sub-account, id="qcs::cam::uin/<OwnerUin>:uin/<SubUin>"; when you need to authorize the root	String	No

Name	Description	Type	Required
	account, id="qcs::cam::uin/<OwnerUin>:uin/<OwnerUin>"		
x-cos-grant-write	Grant write permission to the authorized user. Format: x-cos-grant-write: id=" ", id=" "; when you need to authorize a sub-account, id="qcs::cam::uin/<OwnerUin>:uin/<SubUin>"; when you need to authorize the root account, id="qcs::cam::uin/<OwnerUin>:uin/<OwnerUin>"	String	No
x-cos-grant-full-control	Grant read-write permission to the authorized user. Format: x-cos-grant-full-control: id=" ", id=" "; when you need to authorize a sub-account, id="qcs::cam::uin/<OwnerUin>:uin/<SubUin>"; when you need to authorize the root account, id="qcs::cam::uin/<OwnerUin>:uin/<OwnerUin>"	String	No

## Request Body



The request body of this request is null.

## Response

### Response Header

#### Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

#### Specific Response Header

No particular response header for this response.

### Response Body

application/xml data is returned for the response body, including the complete node data, as show below:

```
<InitiateMultipartUploadResult>  
  <Bucket> </Bucket>  
  <Key> </Key>  
  <UploadId> </UploadId>  
</InitiateMultipartUploadResult>
```

Detailed data content is shown as below:

Node Name (Keyword)	Parent Node	Description	Type
InitiateMultipartUploadResult	None	Indicate all the returned information	Container

Content of Container node InitiateMultipartUploadResult:

Node Name (Keyword)	Parent Node	Description	Type
Bucket	InitiateMultipartUploadResult	The target Bucket of multipart upload	Container
Key	InitiateMultipartUploadResult	Name of Object	Container
UploadId	InitiateMultipartUploadResult	ID used in subsequent uploads	Container

## Practical Case

### Request

POST /ObjectName?uploads HTTP/1.1

Host: arlenhuangtestsgnoverion-1251668577.cos.ap-beijing.myqcloud.com

Date: Fri, 10 Mar 2016 09:45:46 GMT

Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfGFO&q-sign-time=1484727259;32557623259&q-key-time=1484727259;32557623259&q-header-list=host&q-url-param-list=uploads&q-signature=b5f46c47379aeae74be7578380b193c01b28045

### Response

HTTP/1.1 200 OK

Content-Type: application/xml

Content-Length: 230

Connection: keep-alive

Date: Fri, 10 Mar 2016 09:45:46 GMT

Server: tencent-cos

x-cos-request-id: NTg3ZjIzZTZfOWIxZjRlXzZmMzhfMWRj

<InitiateMultipartUploadResult>

<Bucket>arlenhuangtestsgnoverion</Bucket>

<Key>ObjectName</Key>

<UploadId>

148472727

0323ddb949d528c629235314a9ead80f0ba5d993a3d76b460e6a9cceb9633b08e</UploadId>

</InitiateMultipartUploadResult>

## List Parts

### Description

List Parts is used to query the uploaded parts when uploading particular parts, which lists all the uploaded parts under a specified UploadId.

### Request

Syntax:

GET /ObjectName?uploadId=UploadId HTTP/1.1

Host: <BucketName>-<APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#) chapter)

### Request Line

GET /ObjectName?uploadId=UploadId HTTP/1.1

This API allows GET request.

### Request Parameters

Example of request line that contains all request parameters.

GET

/ObjectName?uploadId=UploadId&encoding-type=EncodingType&max-parts=MaxParts&part-number-marker=PartNumberMarker HTTP/1.1

See the details below:

Parameter Name	Description	Type	Required
uploadId	Indicate the ID of current multipart upload. You can obtain an uploadid when you use the API "Initiate Multipart Upload" to initiate multipart upload. This ID exclusively identifies this multipart data, and the relative position of this multipart in the entire file.	String	Yes
encoding-type	Indicate the encoding method of the returned value	String	No
max-parts	Maximum number of entries returned each time. Default is 1,000	String	No
part-number-marker	Entries are listed in UTF-8 binary order by default, starting from marker	String	No

## Request Header

### Common Header

This request operation is implemented using common request header. For more information, please

see [Common Request Headers](#) chapter.

Non-common Header

No particular request header information for this request operation.

## Request Body

The request body of this request is null.

## Response

### Response Header

Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

Specific Response Header

No particular response header for this response.

### Response Body

application/xml data is returned for the response body, including the complete node data, as show below:

```
<ListPartsResult>
  <Bucket> </Bucket>
  <Encoding-type> </Encoding-type>
  <Key> </Key>
  <UploadId> </UploadId>
  <Owner>
```

```

<ID> </ID>
<DisplayName> </DisplayName>
</Owner>
<PartNumberMarker> </PartNumberMarker>
<Initiator>
<ID> </ID>
<DisplayName> </DisplayName>
</Initiator>
<StorageClass> </StorageClass>

<NextPartNumberMarker> </NextPartNumberMarker>
<MaxParts> </MaxParts>
<IsTruncated> </IsTruncated>
<Part>
<PartNumber> </PartNumber>
<LastModified> </LastModified>
<ETag> </ETag>
<Size> </Size>
</Part>
</ListPartsResult>

```

Detailed data content is shown as below:

Node Name (Keyword)	Parent Node	Description	Type
ListPartsResult	None	Indicate information of the current multipart upload operation	Container

Content of Container node ListPartsResult:

Node Name (Keyword)	Parent Node	Description	Type
Bucket	ListPartsResult	The target Bucket for	String

Node Name (Keyword)	Parent Node	Description	Type
		multipart upload	
Encoding-type	ListPartsResult	Indicate the encoding method of the returned value	String
Key	ListPartsResult	Name of Object	String
UploadId	ListPartsResult	Indicate the ID of current multipart upload	String
Initiator	ListPartsResult	Indicate the information of the initiator of current upload	Container
Owner	ListPartsResult	Indicate the information of the owner of these parts	Container
StorageClass	ListPartsResult	Indicate the storage class of uploaded parts; enumerated values include Standard, Standard_IA, nearline	String
PartNumberMarker	ListPartsResult	Entries are listed using UTF-8 binary order by default, starting from marker	String
NextPartNumberMarker	ListPartsResult	If the returned entry is truncated, the returned NextMarker indicates the beginning of the next entry	String
MaxParts	ListPartsResult	Maximum number of entries returned at a time	String
IsTruncated	ListPartsResult	Indicate whether the returned entry is truncated. Boolean:	Boolean



Node Name (Keyword)	Parent Node	Description	Type
		TRUE, FALSE	
Part	ListPartsResult	Indicate the information of each part	Container

Content of Container node Initiator:

Node Name (Keyword)	Parent Node	Description	Type
ID	ListPartsResult.Initiator	Unique ID of the creator	String
DisplayName	ListPartsResult.Initiator	Name of creator	String

Content of Container node Owner:

Node Name (Keyword)	Parent Node	Description	Type
ID	ListPartsResult.Owner	Unique ID of the user	String
DisplayName	ListPartsResult.Owner	Name of User	String

Content of Container node Part:

Node Name (Keyword)	Parent Node	Description	Type
PartNumber	ListPartsResult.Part	Part number	String
LastModified	ListPartsResult.Part	The last modification time of part	Date
ETag	ListPartsResult.Part	MD-5 algorithm check value of Object	String
Size	ListPartsResult.Part	Party size (in bytes)	String

## Practical Case

### Request

GET

/coss3/test10M\_2?uploadId=14846420620

b1f381e5d7b057692e131dd8d72dfa28f2633cfbbe4d0a9e8bd0719933545b0&max-parts=1 HTTP/1.1

Host:burning-1251668577.cos.ap-beijing.myqcloud.com

Date: Wed, 18 Jan 2017 16:17:03 GMT

Authorization:q-sign-algorithm=sha1&q-ak=AKIDDNMEycgLRPI2axw9xa2Hhx87wZ3MqQCn&q-sign-time=1484643123;1484646723&q-key-time=1484643123;1484646723&q-header-list=host&q-url-param-list=max-parts;uploadId&q-signature=b8b4055724e64c9ad848190a2f7625fd3f9d3e87

## Response

HTTP/1.1 200 OK

Content-Type: application/xml

Content-Length: 661

Connection: keep-alive

Date: Wed, 18 Jan 2017 16:17:03 GMT

x-cos-request-id: NTg3ZGRiMzhfMmM4OGY3XzdY2NfYw==

<ListPartsResult>

<Bucket>burning</Bucket>

<Encoding-type/>

<Key>test10M\_2</Key>

<UploadId>

148464206

20b1f381e5d7b057692e131dd8d72dfa28f2633cfbbe4d0a9e8bd0719933545b0</UploadId>

<Initiator>

<ID>123456789</ID>

<DisplyName>123456789</DisplyName>

</Initiator>

<Owner>

<ID>qcs::cam::uin/156545789:uin/156545789</ID>

<DisplyName>156545789</DisplyName>

</Owner>

<PartNumberMarker>0</PartNumberMarker>

<Part>

<PartNumber>1</PartNumber>

```
<LastModified>Tue Jan 17 16:43:37 2017</LastModified>
<ETag>"a1f8e5e4d63ac6970a0062a6277e191fe09a1382"</ETag>
<Size>5242880</Size>
</Part>
<NextPartNumberMarker>1</NextPartNumberMarker>
<StorageClass>Standard</StorageClass>
<MaxParts>1</MaxParts>
<IsTruncated>true</IsTruncated>
</ListPartsResult>
```

## Upload Part

### Description

Upload Part request is used to implement the multipart upload after initialization. The allowed number of parts is limited to 10,000, and the size of part should be between 1 MB and 5 GB.

You can obtain an uploadid when you use the API "Initiate Multipart Upload" to initiate multipart upload. This ID exclusively identifies this multipart data, and the relative position of this multipart in the entire file. Upload Part should be used with partNumber and uploadId. partNumber is the part No. and supports out-of-order upload.

If the uploadId and partNumber are the same, the parts uploaded later will overwrite the parts uploaded earlier. A 404 error "NoSuchUpload" will be returned if the uploadId does not exist.

### Request

Syntax:

PUT /ObjectName?partNumber=PartNumber&uploadId=UploadId HTTP/1.1

Host: <BucketName>-<APPID>.cos.<Region>.myqcloud.com

Date: GMT Date

Content-Length: Size

Authorization: Auth String

Authorization: Auth String (For more information, please see [Request Signature](#) chapter)

### Request Line

PUT /ObjectName?partNumber=PartNumber&uploadId=UploadId HTTP/1.1

This API allows PUT request.

## Request Parameters

Example of request line that contains all request parameters.

PUT /ObjectName?partNumber=PartNumber&uploadId=UploadId HTTP/1.1

See the details below:

Parameter Name	Description	Type	Required
partNumber	Indicate the No. of current multipart upload	String	Yes
uploadId	Indicate the ID of current multipart upload. You can obtain an uploadid when you use the API "Initiate Multipart Upload" to initiate multipart upload. This ID exclusively identifies this multipart data, and the relative position of this multipart in the entire file	String	Yes

## Request Header

### Common Header

This request operation is implemented using common request header. For more information, please see [Common Request Headers](#) chapter.

### Non-common Header

### Required Header

The following required request header is needed for the implementation of request operation.

Details are shown below:

Name	Description	Type	Required
Content-Length	HTTP request content length defined in RFC 2616 (in bytes)	String	Yes

### Recommended Header

The following recommended request headers are recommended for implementation of this request operation. Details are shown below:

Name	Description	Type	Required
Expect	HTTP request content length defined in RFC 2616 (in bytes)	String	Yes
Content-MD5	128-bit content MD5 check value encoded using Base64, defined in RFC 1864. This header is used to check whether the file content has changed	String	No

### Request Body

The request body of this request is null.

## Response

### Response Header

#### Common Response Header

This response uses common response header. For more information, please see [Common Response Headers](#) chapter.

### Specific Response Header

No particular response header for this response.

### Response Body

The response body of this response is null.

## Practical Case

### Request

PUT

/ObjectName?partNumber=1&uploadId=1484727270323ddb949d528c629235314a9ead80f0ba5d993a3d76b460e6a9cceb9633b08e HTTP/1.1

Host: arlenhuangtestsgnoverion-1251668577.cos.ap-beijing.myqcloud.com

Date: Wed, 18 Jan 2017 16:17:03 GMT

Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfGFO&q-sign-time=1484727403;32557623403&q-key-time=1484727403;32557623403&q-header-list=host&q-url-param-list=partNumber;uploadId&q-signature=bfc54518ca8fc31b3ea287f1ed2a0dd8c8e88a1d

Content-Length: 10485760

[Object]

### Response

HTTP/1.1 200 OK

Content-Type: application/xml

Content-Length: 0

Connection: keep-alive

Date: Wed, 18 Jan 2017 16:17:03 GMT

Etag: "e1e5b4965bc7d30880ed6d226f78a5390f1c09fc"

Server: tencent-cos

x-cos-request-id: NTg3ZjI0NzlfOWIxZjRlXzZmNGJfMWYy