

OBS PHP SDK

API Reference

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1 Overview

This document describes all APIs of OBS (Object Storage Service) PHP SDK, including the API description, method definition, and parameter description.

For details about the end-to-end use (such as installation, initialization, development, and FAQs) of OBS PHP SDK, application scenarios of APIs, and code examples in different scenarios, see the [Object Storage Service PHP SDK Developer Guide](#).

2 Initialization

2.1 ObsClient Initialization

API Description

ObsClient functions as the PHP client for accessing OBS. It offers callers a series of APIs for interaction with OBS. These APIs are used for managing and operating resources, such as buckets and objects, stored in OBS.

Namespace

Class	Parent Namespace
ObsClient	Obs

Method Definition

1. Constructor form: ObsClient(array \$parameter)
2. Factory form: ObsClient::factory(array \$parameter)

Parameter Description

Field	Type	Optional or Mandatory	Description
key	string	Mandatory	AK
secret	string	Mandatory	SK

Field	Type	Optional or Mandatory	Description
endpoint	string	Mandatory	Endpoint for accessing OBS, which contains the protocol type, domain name (or IP address), and port number. For example, <code>https://your-endpoint:443</code> .
ssl_verify	boolean or string	Optional	Whether to verify server-side certificates. Possible values are: <ul style="list-style-type: none">• Path to the server-side root certificate file in .pem format• true: The default CAs are used to verify the server-side certificate.• false: The server-side certificates will not be verified. The default value is false .
max_retry_count	integer	Optional	Maximum number of retries when an HTTP/HTTPS connection is abnormal. The default value is 3 .
socket_timeout	integer	Optional	Timeout duration for transmitting data at the socket layer, in seconds. The default value is 60 .
connect_timeout	integer	Optional	Timeout period for establishing an HTTP/HTTPS connection, in seconds. The default value is 60 .
chunk_size	integer	Optional	Block size for reading socket streams, in bytes. The default value is 65536 .

Sample Code

```
// Import the dependency library.
require 'vendor/autoload.php';
// Import the SDK code library during source code installation.
// require 'obs-autoloader.php';
// Declare the namespace.
use Obs\ObsClient;

// Create an instance of ObsClient.
$obsClient = new ObsClient([
    //Obtain an AK/SK pair using environment variables or import the AK/SK pair in other ways. Using hard
    coding may result in leakage.
    //Obtain an AK/SK pair on the management console. For details, see https://
    support.huaweicloud.com/eu/usermanual-ca/ca\_01\_0003.html.
    'key' => getenv('ACCESS_KEY_ID'),
    'secret' => getenv('SECRET_ACCESS_KEY'),
    'endpoint' => 'https://your-endpoint',
    'ssl_verify' => false,
```



```
'max_retry_count' => 1,  
'socket_timeout' => 20,  
'connect_timeout' => 20,  
'chunk_size' => 8196  
]);
```

2.2 Log Initialization

API Description

You can enable the SDK log function to record log information generated during API calling into log files for subsequent data analysis or fault location.

Method Definition

```
ObsClient->initLog(array $parameter)
```

Parameter Description

Field	Type	Optional or Mandatory	Description
FilePath	string	Mandatory	Save directory of log files
FileName	string	Mandatory	Log file name
MaxFiles	integer	Mandatory	Maximum number of log files that can be retained
Level	integer	Mandatory	Log level. SDK defines four types of integer constant corresponding to different log levels, which are: <ul style="list-style-type: none">• DEBUG (100)• INFO (200)• WARN (300)• ERROR (400)

Sample Code

```
$obsClient->initLog ([  
    'FilePath' => './logs',  
    'FileName' => 'OBS-SDK.log',  
    'MaxFiles' => 10,  
    'Level' => INFO  
]);
```

2.3 Request Array

API Description

Each time you call an API of **ObsClient**, you need to pass the associative array to the request as the input. For a bucket-related API, the **Bucket** field contained in the associative array is used to specify the bucket name (excluding **ObsClient->listBuckets**). For an object-related API, the **Bucket** field and **Key** field contained in the associative array are used to specify the bucket name and object name, respectively.

Parameter Description

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory for object-related APIs	Object name
Other parameters	For details, see "Bucket-Related APIs" and "Object-Related APIs".		

2.4 SDK Common Result Objects

API Description

After an API is called using an instance of **ObsClient**, view whether an exception is thrown. If no, an SDK common result object will be returned, indicating a successful operation. If yes, the operation fails and you need to obtain the error information from the instance of [Obs\Common\ObsException](#).

Namespace

Class	Parent Namespace
Model	Obs\Internal\Common

Parameter Description

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Other fields	For details, see "Bucket-Related APIs" and "Object-Related APIs".	

2.5 SDK Custom Exceptions

API Description

SDK custom exceptions are thrown by **ObsClient** and are inherited from class **\RuntimeException**. Exceptions are usually OBS server-side errors, including OBS error codes and error information. This facilitates users to locate problems and troubleshoot faults.

Namespace

Class	Parent Namespace
ObsException	Obs

Method Description

Method	Return Value Type	Description
ObsException->getExceptionCode	string	Error code returned by the OBS server
ObsException->getExceptionMessage	string	Error description returned by the OBS server
ObsException->getRequestId	string	Request ID returned by the OBS server
ObsException->getHostId	string	Requested server ID

Method	Return Value Type	Description
ObsException->getResponse	GuzzleHttp \Psr7\Response	HTTP response object
ObsException->getRequest	GuzzleHttp \Psr7\Request	HTTP request object
ObsException->getStatusCode	integer	HTTP status code

2.6 Asynchronous Method Call

API Description

All bucket- and object-related APIs provided by OBS PHP SDK can be called by asynchronous methods whose names end with **Async** (such as **ObsClient->putObjectAsync** if the synchronous method is named **ObsClient->putObject**). The returned result will be output to a callback function. A callback function contains an **SDK custom exception** and an **SDK common result object** in sequence. If the **SDK custom exception** is not null, the operation fails. Otherwise, the operation succeeds.

Sample Code

```
$promise = $obsClient->putObjectAsync ( [  
    'Bucket' => 'bucketname',  
    'Key' => 'objectkey',  
    'Body' => 'Hello OBS'  
], function ($obsException, $resp) {  
    if ($obsException === null) {  
        printf ( "RequestId:%s\n", $resp ['RequestId'] );  
    } else {  
        printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );  
        printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );  
    }  
});  
$promise->wait ();
```

NOTE

A result object (**GuzzleHttp\Promise\Promise**) will be returned upon an asynchronous method call. You need to call the **wait** method of the object to wait until the asynchronous method call is complete.

3 Predefined Constants

3.1 Permission Types

Access Method	Type	Description
ObsClient::PermissionRead	string	<p>A grantee with this permission for a bucket can obtain the list of objects, multipart uploads, and multiple object versions in and the bucket, as well as metadata of the bucket.</p> <p>A grantee with this permission for an object can obtain the object content and metadata.</p>
ObsClient::PermissionWrite	string	<p>A grantee with this permission for a bucket can upload, overwrite, and delete any object or part in the bucket.</p> <p>This permission is not applicable to objects.</p>
ObsClient::PermissionReadAcp	string	<p>A grantee with this permission can obtain the ACL of a bucket or object.</p> <p>A bucket or object owner has this permission permanently.</p>

Access Method	Type	Description
ObsClient::PermissionWriteAcp	string	<p>A grantee with this permission can update the ACL of a bucket or object.</p> <p>A bucket or object owner has this permission permanently.</p> <p>A grantee with this permission can modify the access control policy and thus the grantee obtains full access permissions.</p>
ObsClient::PermissionFullControl	string	<p>A grantee with this permission for a bucket has PermissionRead, PermissionWrite, PermissionReadAcp, and PermissionWriteAcp permissions for the bucket.</p> <p>A grantee with this permission for an object has PermissionRead, PermissionWriteAcp, and PermissionWriteAcp permissions for the object.</p>

3.2 Available Grantee Groups

Access Method	Type	Description
ObsClient::GranteeGroup	string	Grants permissions to user groups.
ObsClient::GranteeUser	string	Grants permissions to a single user.

3.3 Available Grantee Types

Access Method	Type	Description
ObsClient::GroupAllUsers	string	Indicates all users.
ObsClient::GroupAuthenticatedUsers	string	Authorized users. This constant is deprecated.
ObsClient::GroupLogDelivery	string	Log delivery group. This constant is deprecated.

3.4 Pre-defined Access Control Policies

Access Method	Type	Description
ObsClient::AclPrivate	string	Private read/write
ObsClient::AclPublicRead	string	Public read
ObsClient::AclPublicReadWrite	string	Public read/write
ObsClient::AclPublicReadDelivered	string	Public read on a bucket as well as objects in the bucket
ObsClient::AclPublicReadWriteDelivered	string	Public read/write on a bucket as well as objects in the bucket

3.5 Storage Classes

Access Method	Type	Description
ObsClient::StorageClassStandard	string	OBS Standard
ObsClient::StorageClassWarm	string	OBS Infrequent Access
ObsClient::StorageClassCold	string	OBS Archive

3.6 Restore Options

Access Method	Type	Description
ObsClient::RestoreTierExpedited	string	Expedited restoration, which restores an object in 1 to 5 minutes.
ObsClient::RestoreTierStandard	string	Standard restoration, which restores an object in 3 to 5 hours.

3.7 Metadata Replication Policy

Access Method	Type	Description
ObsClient::CopyMetadata	string	Copies metadata.

Access Method	Type	Description
ObsClient::ReplaceMetadata	string	Replaces metadata.

4 Bucket-Related APIs

4.1 PUT Bucket

API Description

You can use this API to create a bucket and name it as you specify. The created bucket name must be unique in OBS. Buckets with the same name can only be created by the same user in the same region. In other cases, creating a bucket with a used name will fail. Each user can create a maximum of 100 buckets.

Method Definition

1. `ObsClient->createBucket(array $parameter)`
2. `ObsClient->createBucketAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	<p>Bucket name</p> <p>A bucket name must comply with the following rules:</p> <ul style="list-style-type: none"> • Contains 3 to 63 characters chosen from lowercase letters, digits, hyphens (-), and periods (.), and starts with a digit or letter. • Cannot be an IP-like address. • Cannot start or end with a hyphen (-) or period (.). • Cannot contain two consecutive periods (.), for example, my..bucket. • Cannot contain periods (.) and hyphens (-) adjacent to each other, for example, my-.bucket or my.-bucket.
ACL	string	Optional	Pre-defined access control policy that can be specified during the bucket creation
StorageClass	string	Optional	Bucket storage class that can be specified during the bucket creation
LocationConstraint	string	Mandatory unless the region where the OBS service resides is not the default region.	<p>Region where a bucket will be created.</p> <p>For more information about OBS regions and endpoints, see .</p>

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description

Field	Type	Description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> createBucket([
        'Bucket' => 'bucketname',
        'ACL' => 'private',
        'StorageClass' => ObsClient::StorageClassStandard
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.2 GET Buckets

API Description

You can use this API to obtain the bucket list. In the list, bucket names are displayed in lexicographical order.

Method Definition

1. `ObsClient->listBuckets(array $parameter)`
2. `ObsClient->listBucketsAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
QueryLocation	boolean	Optional	Whether to query the bucket location

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Buckets	indexed array	List of buckets

Field	Type	Description	
	Name	string	Bucket name
	CreationDate	string	Time when the bucket is created
	Location	string	Bucket location
Owner	associative array	Bucket owner	
	ID	string	ID of the domain to which the bucket owner belongs

Sample Code

```
try{
    $resp = $obsClient -> listBuckets([
        'QueryLocation' => true
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Owner[ID]:%s\n", $resp['Owner']['ID']);

    foreach ($resp['Buckets'] as $index => $bucket){
        printf("Buckets[%d]\n", $index + 1);
        printf("Name:%s\n", $bucket['Name']);
        printf("CreationDate:%s\n", $bucket['CreationDate']);
        printf("Location:%s\n", $bucket['Location']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.3 HEAD Bucket

API Description

You can use this API to check whether a bucket exists. If the HTTP status code in the thrown exception is **200**, the bucket exists. If the HTTP status code is **404**, the bucket does not exist.

Method Definition

1. `ObsClient->headBucket(array $parameter)`
2. `ObsClient->headBucketAsync(array $parameter, callable callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> headBucket([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Bucket exists\n");
}catch (Obs\Common\ObsException $obsException){
    if($obsException->getStatusCode() === 404){
        printf("Bucket does not exist\n");
    }else{
        printf("StatusCode:%d\n", $obsException->getStatusCode());
    }
}
```

4.4 DELETE Bucket

API Description

You can use this API to delete a bucket. The bucket to be deleted must be empty (containing no objects, noncurrent object versions, or part fragments).

Method Definition

1. `ObsClient->deleteBucket(array $parameter)`
2. `ObsClient->deleteBucketAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> deleteBucket([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
}catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.5 GET Objects

API Description

You can use this API to list objects in a bucket. By default, a maximum of 1000 objects are listed.

Method Definition

1. `ObsClient->listObjects(array $parameter)`
2. `ObsClient->listObjectsAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Prefix	string	Optional	Prefix that the object names to be listed must contain
Marker	string	Optional	Object name to start with when listing objects in a bucket. All objects are listed in the lexicographical order.
MaxKeys	integer	Optional	Maximum number of objects returned in the response. The value ranges from 1 to 1000. If the value is not in this range, 1000 is returned by default.
Delimiter	string	Optional	Character used to group object names. If the object name contains the Delimiter parameter, the character string from the first character to the first delimiter in the object name is grouped under a single result element, CommonPrefix . (If a prefix is specified in the request, the prefix must be removed from the object name.)

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Location	string	Bucket location
Name	string	Bucket name
Delimiter	string	Character used to group object names, which is consistent with that set in the request

Field		Type	Description
IsTruncated		boolean	Whether all objects are returned. If the field value is true , not all objects are returned. If the field value is false , all objects are returned.
Prefix		string	Object name prefix, which is consistent with that set in the request
Marker		string	Start position for listing objects, which is consistent with that set in the request
NextMarker		string	Object name to start with upon next request for listing objects
MaxKeys		integer	Maximum number of listed objects, which is consistent with that set in the request
Contents		indexed array	Object list.
	ETag	string	MD5 value of the object (If the object is encrypted using server-side encryption, the ETag is not the MD5 value of the object.)
	Size	integer	Object size in bytes
	Key	string	Object name
	LastModified	string	Time when the last modification was made to the object
	Owner	associative array	Object owner
		ID	string
	StorageClass	string	Storage class of the object
CommonPrefixes		indexed array	List of object name prefixes grouped according to the Delimiter parameter (if specified)
	Prefix	string	Object name prefix grouped according to the Delimiter parameter

Sample Code

```
try{
    $resp = $obsClient -> listObjects([
        'Bucket' => 'bucketname',
        'Prefix' => 'prefix',
        'MaxKeys' => 100
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    foreach ($resp['Contents'] as $index => $content){
        printf("Contents[%d]\n", $index + 1);
        printf("ETag:%s\n", $content['ETag']);
        printf("Size:%s\n", $content['Size']);
        printf("StorageClass:%s\n", $content['StorageClass']);
        printf("Key:%s\n", $content['Key']);
        printf("LastModified:%s\n", $content['LastModified']);
        printf("Owner[ID]:%s\n", $content['Owner']['ID']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.6 GET Object versions

API Description

You can use this API to list versioning objects in a bucket. By default, a maximum of 1000 versioning objects are listed.

Method Definition

1. `ObsClient->listVersions(array $parameter)`
2. `ObsClient->listVersionsAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Option al or Manda tory	Description
Bucket	string	Mandat ory	Bucket name
Prefix	string	Option al	Prefix that the object names to be listed must contain
KeyMarker	string	Option al	Object name to start with when listing versioning objects in a bucket. All versioning objects following this parameter are listed in the lexicographical order.
MaxKeys	integer	Option al	Maximum number of objects returned. The value ranges from 1 to 1000. If the value is not in this range, 1000 is returned by default.

Field	Type	Optional or Mandatory	Description
Delimiter	string	Optional	Character used to group object names. If the object name contains the Delimiter parameter, the character string from the first character to the first delimiter in the object name is grouped under a single result element, CommonPrefix . (If a prefix is specified in the request, the prefix must be removed from the object name.)
VersionIdMarker	string	Optional	Object name to start with when listing versioning objects in a bucket. All versioning objects are listed in the lexicographical order by object name and version ID. This parameter must be used together with KeyMarker . If the value of VersionIdMarker is not a version ID specified by KeyMarker , VersionIdMarker does not take effect.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Location	string	Bucket location
Name	string	Bucket name
Delimiter	string	Character used to group object names, which is consistent with that set in the request
Prefix	string	Object name prefix, which is consistent with that set in the request
IsTruncated	boolean	Whether all versioning objects are returned. If the field value is true , not all versioning objects are returned. If the field value is false , all versioning objects are returned.

Field		Type	Description
KeyMarker		string	Start position for listing objects, which is consistent with that set in the request
VersionIdMarker		string	Start position for listing objects, which is consistent with that set in the request
NextKeyMarker		string	Object name to start with upon the next request for listing versioning objects in a bucket
NextVersionIdMarker		string	Version ID to start with upon the next request for listing versioning objects. It is used with the NextKeyMarker parameter.
MaxKeys		integer	Maximum number of listed versioning objects, which is consistent with that set in the request
Versions		indexed array	List of versioning objects.
	ETag	string	MD5 value of the object
	Size	integer	Object size in bytes
	Key	string	Object name
	VersionId	string	Object version ID
	IsLatest	boolean	Whether the object is of the latest version. If the field value is true , the object is of the latest version.
	LastModified	string	Time when the last modification was made to the object
	Owner	associative array	Object owner
		ID	string
	StorageClass	string	Storage class of the object
DeleteMarkers		indexed array	List of versioning delete markers
	Owner	associative array	Object owner
		ID	string

Field		Type	Description
	Key	string	Object name
	VersionId	string	Object version ID
	IsLatest	boolean	Whether the object is of the latest version. If the field value is true , the object is of the latest version.
	LastModified	string	Time when the last modification was made to the object
CommonPrefixes		indexed array	List of object name prefixes grouped according to the Delimiter parameter (if specified)
	Prefix	string	Object name prefix grouped according to the Delimiter parameter

Sample Code

```
try{
    $resp = $obsClient -> listVersions([
        'Bucket' => 'bucketname',
        'Prefix' => 'prefix',
        'MaxKeys' => 100
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Versions:\n");
    foreach ($resp['Versions'] as $index => $version){
        printf("Versions[%d]\n", $index + 1);
        printf("ETag:%s\n", $version['ETag']);
        printf("Size:%s\n", $version['Size']);
        printf("StorageClass:%s\n", $version['StorageClass']);
        printf("Key:%s\n", $version['Key']);
        printf("VersionId:%s\n", $version['VersionId']);
        printf("LastModified:%s\n", $version['LastModified']);
        printf("Owner[ID]:%s\n", $version['Owner']['ID']);
    }

    printf("DeleteMarkers:\n");
    foreach ($resp['DeleteMarkers'] as $index => $deleteMarker){
        printf("DeleteMarkers[%d]\n", $index + 1);
        printf("Key:%s\n", $deleteMarker['Key']);
        printf("VersionId:%s\n", $deleteMarker['VersionId']);
        printf("IsLatest:%s\n", $deleteMarker['IsLatest']);
        printf("LastModified:%s\n", $deleteMarker['LastModified']);
        printf("Owner[ID]:%s\n", $deleteMarker['Owner']['ID']);
    }
}catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.7 List Multipart uploads

API Description

You can use this API to list the multipart uploads that are initialized but not combined or aborted in a specified bucket.

Method Definition

1. `ObsClient->listMultipartUploads(array $parameter)`
2. `ObsClient->listMultipartUploadsAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Delimiter	string	Optional	Character used to group object names involved in multipart uploads. If the object name contains the Delimiter parameter, the character string from the first character to the first delimiter in the object name is grouped under a single result element, CommonPrefix . (If a prefix is specified in the request, the prefix must be removed from the object name.)
Prefix	string	Optional	Prefix that the object names in the multipart uploads to be listed must contain
MaxUploads	integer	Optional	Maximum number of returned multipart uploads. The value ranges from 1 to 1000. If the value is not in this range, 1000 is returned by default.
KeyMarker	string	Optional	Object name to start with when listing multipart uploads
UploadIdMarker	string	Optional	Upload ID after which the multipart upload listing begins. It is effective only when used with KeyMarker so that multipart uploads after UploadIdMarker of KeyMarker will be listed.

Returned Result

Field	Type	Description	
HttpStatusCode	integer	HTTP status code	
Reason	string	Reason description	
RequestId	string	Request ID returned by the OBS server	
Bucket	string	Bucket name	
KeyMarker	string	Object name after which listing multipart uploads begins, which is consistent with that set in the request	
UploadIdMarker	string	Upload ID after which the multipart upload listing begins, which is consistent with that set in the request	
NextKeyMarker	string	Object name to start with upon the next request for listing multipart uploads	
NextUploadIdMarker	string	Upload ID to start with upon the next request for listing multipart uploads. It is used with the NextKeyMarker parameter.	
Delimiter	string	Character used to group object names in multipart uploads, which is consistent with that set in the request	
Prefix	string	Object name prefix in multipart uploads, which is consistent with the same parameter in the request	
MaxUploads	integer	Maximum number of listed multipart uploads, which is consistent with the same parameter in the request	
IsTruncated	boolean	Whether all multipart uploads are returned. If the field value is true , not all multipart uploads are returned. If the field value is false , all multipart uploads are returned.	
Uploads	indexed array	List of multipart uploads.	
	Key	string	Name of the object to be uploaded
	UploadId	string	Multipart upload ID
	Initiator	associative array	Initiator of the multipart upload

Field		Type	Description
	ID	string	ID of the domain to which the initiator belongs
	Owner	associative array	Owner of the multipart upload, which is consistent with Initiator
	ID	string	ID of the domain to which the initiator belongs
	Initiated	string	Time when the multipart upload was initiated
	StorageClass	string	Storage class of the object to be uploaded
CommonPrefixes		indexed array	List of object name prefixes grouped according to the Delimiter parameter (if specified)
	Prefix	string	Object name prefix grouped according to the Delimiter parameter

Sample Code

```
try{
    $resp = $obsClient -> listMultipartUploads([
        'Bucket' => 'bucketname',
        'Prefix' => 'prefix',
        'MaxUploads' => 100
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    foreach ($resp['Uploads'] as $index => $upload){
        printf("Versions[%d]\n", $index + 1);
        printf("UploadId:%s\n", $upload['UploadId']);
        printf("Initiated:%s\n", $upload['Initiated']);
        printf("StorageClass:%s\n", $upload['StorageClass']);
        printf("Key:%s\n", $upload['Key']);
        printf("Initiator[ID]:%s\n", $upload['Initiator']['ID']);
        printf("Initiator[DisplayName]:%s\n", $upload['Initiator']['DisplayName']);
        printf("Owner[ID]:%s\n", $upload['Owner']['ID']);
        printf("Owner[DisplayName]:%s\n", $upload['Owner']['DisplayName']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.8 Obtain Bucket Metadata

API Description

You can use this API to send a HEAD request to a bucket to obtain the bucket metadata such as the storage class and CORS rules (if set).

Method Definition

1. ObsClient->getBucketMetadata(array \$parameter)
2. ObsClient->getBucketMetadata(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Origin	string	Optional	Origin of the cross-domain request specified by the pre-request. Generally, it is a domain name.
RequestHeader	string	Optional	HTTP header in a cross-domain request

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Location	string	Bucket location
StorageClass	string	Storage class of the bucket. When the storage class is OBS Standard, the value is null.
AllowOrigin	string	If Origin in the request meets the CORS rules of the server, AllowedOrigin in the CORS rules is returned.
AllowHeader	string	If RequestHeader in the request meets the CORS rules of the server, AllowedHeader in the CORS rules is returned.
AllowMethod	string	AllowedMethod in the CORS rules of the server
ExposeHeader	string	ExposeHeader in the CORS rules of the server

Field	Type	Description
MaxAgeSeconds	integer	MaxAgeSeconds in the CORS rules of the server

Sample Code

```
try{
    $resp = $obsClient -> getBucketMetadata([
        'Bucket' => 'bucketname',
        'Origin' => 'http://www.a.com',
        'RequestHeader' => 'x-obs-header'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("StorageClass:%s\n", $resp['StorageClass']);
    printf("AllowOrigin:%s\n", $resp['AllowOrigin']);
    printf("AllowHeader:%s\n", $resp['AllowHeader']);
    printf("AllowMethod:%s\n", $resp['AllowMethod']);
    printf("ExposeHeader:%s\n", $resp['ExposeHeader']);
    printf("MaxAgeSeconds:%s\n", $resp['MaxAgeSeconds']);
} catch (Obs\Common\ObsException $obsException){
    printf("StatusCode:%s\n", $obsException->getStatusCode());
}
```

4.9 GET Bucket location

API Description

You can use this API to obtain the bucket location.

Method Definition

- ObsClient->getBucketLocation(array \$parameter)
- ObsClient->getBucketLocationAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description

Field	Type	Description
RequestId	string	Request ID returned by the OBS server
Location	string	Bucket location

Sample Code

```
try{
    $resp = $obsClient -> getBucketLocation([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Location:%s\n", $resp['Location']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.10 GET Bucket storageinfo

API Description

You can use this API to obtain storage information about a bucket, including the bucket size and number of objects in the bucket.

Method Definition

- ObsClient->getBucketStorageInfo(array \$parameter)
- ObsClient->getBucketStorageInfo(array \$parameter, callback \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result (InterfaceResult)

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Size	double	Bucket size

Field	Type	Description
ObjectNumber	integer	Number of objects in the bucket

Sample Code

```
try{
    $resp = $obsClient -> getBucketStorageInfo([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Size:%s\n", $resp['Size']);
    printf("ObjectNumber:%s\n", $resp['ObjectNumber']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.11 PUT Bucket quota

API Description

You can use this API to set the bucket quota. A bucket quota must be expressed in bytes and the maximum value is $2^{63}-1$. Value **0** indicates that no upper limit is set for the bucket quota.

Method Definition

- ObsClient->setBucketQuota(array \$parameter)
- ObsClient->setBucketQuotaAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
StorageQuota	integer	Mandatory	Bucket quota. The value is a non-negative integer.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description

Field	Type	Description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketQuota([
        'Bucket' => 'bucketname',
        'StorageQuota' => 100 * 1024 * 1024
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.12 GET Bucket quota

API Description

You can use this API to obtain the bucket quota. Value **0** indicates that no upper limit is set for the bucket quota.

Method Definition

- ObsClient->getBucketQuota(array \$parameter)
- ObsClient->getBucketQuotaAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
StorageQuota	integer	Bucket quota

Sample Code

```
try{
    $resp = $obsClient -> getBucketQuota([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("StorageQuota:%s\n", $resp['StorageQuota']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.13 Set Bucket storagePolicy

API Description

You can use this API to set storage classes for buckets. The storage class of an object defaults to be that of its residing bucket.

Method Definition

1. `ObsClient->setBucketStoragePolicy(array $parameter)`
2. `ObsClient->setBucketStoragePolicyAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
StorageClass	string	Mandatory	Storage class of the bucket

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketStoragePolicy([
        'Bucket' => 'bucketname',
        'StorageClass' => ObsClient::StorageClassWarm
    ]);
}
```

```
]);  
    printf("RequestId:%s\n", $resp['RequestId']);  
}catch (Obs\Common\ObsException $obsException){  
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());  
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());  
}
```

4.14 GET Bucket storagePolicy

API Description

You can use this API to obtain the storage class of a bucket.

Method Definition

1. ObsClient->getBucketStoragePolicy(array \$parameter)
2. ObsClient->getBucketStoragePolicyAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
StorageClass	string	Storage class of the bucket

Sample Code

```
try{  
    $resp = $obsClient -> getBucketStoragePolicy([  
        'Bucket' => 'bucketname'  
    ]);  
    printf("RequestId:%s\n", $resp['RequestId']);  
    printf("StorageClass:%s\n", $resp['StorageClass']);  
}catch (Obs\Common\ObsException $obsException){  
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());  
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());  
}
```

4.15 PUT Bucket acl

API Description

You can use this API to set the ACL for a bucket.

Method Definition

1. `ObsClient->setBucketAcl(array $parameter)`
2. `ObsClient->setBucketAclAsync(array $parameter, callable $callback)`

Request Parameter

Field		Type	Optional or Mandatory	Description
Bucket		string	Mandatory	Bucket name
ACL		string	Optional	Pre-defined access control policy
Owner		associative array	Optional	Bucket owner
	ID	string	Mandatory	ID of the domain to which the bucket owner belongs
	DisplayName	string	Optional	Name of the bucket owner
Grants		indexed array	Optional	List of grantees' permission information
	Grantee	associative array	Mandatory	Grantee
	Type	string	Mandatory	Grantee type

Field		Type	Optional or Mandatory	Description
	ID	string	Mandatory when Type is CanonicalUser . In other cases, leave it null.	ID of the domain to which the grantee belongs
	URI	string	Mandatory when Type is Group . In other cases, leave it null.	Grantee group
	Permission	string	Mandatory	Granted permission
	Delivered	boolean	Optional	Whether an object inherits the ACL of its residing bucket

 **NOTE**

- **Owner** and **Grants** must be used together and they cannot be used with **ACL**.
- You must set either the two fields or **ACL**.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketAcl([
        'Bucket' => 'bucketname',
        'Owner' => ['ID' => 'ownerid', 'DisplayName' => 'ownername'],
        'Grants' => [
            ['Grantee' => ['Type' => 'CanonicalUser', 'ID' => 'userid'], 'Permission' =>
            ObsClient::PermissionRead],
            ['Grantee' => ['Type' => 'CanonicalUser', 'ID' => 'userid'], 'Permission' =>
            ObsClient::PermissionWrite],
            ['Grantee' => ['Type' => 'Group', 'URI' => ObsClient::GroupLogDelivery], 'Permission' =>
            ObsClient::PermissionWrite],
            ['Grantee' => ['Type' => 'Group', 'URI' => ObsClient::GroupLogDelivery], 'Permission' =>
            ObsClient::PermissionReadAcp],
        ]
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.16 GET Bucket acl

API Description

You can use this API to obtain a bucket ACL.

Method Definition

1. ObsClient->getBucketAcl(array \$parameter)
2. ObsClient->getBucketAclAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Field		Type	Description
Owner		associative array	Bucket owner
	ID	string	ID of the domain to which the bucket owner belongs
Grants		indexed array	List of grantees' permission information
	Grantee	associative array	Grantee
	ID	string	ID of the domain to which the grantee belongs. This field is null when Type of Grantee is Group .
	URI	string	Grantee group. This field is null when Type of Grantee is CanonicalUser .
	Permission	string	Granted permission
	Delivered	boolean	Whether an object inherits the ACL of its residing bucket

Sample Code

```
try{
    $resp = $obsClient -> getBucketAcl([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Owner[ID]:%s\n", $resp['Owner']['ID']);
    printf("Owner[DisplayName]:%s\n", $resp['Owner']['DisplayName']);
    printf("Grants\n");
    foreach ($resp['Grants'] as $index => $grant){
        printf("Grants[%d]", $index + 1);
        printf("Grantee[ID]:%s\n", $grant['Grantee']['ID']);
        printf("Grantee[DisplayName]:%s\n", $grant['Grantee']['DisplayName']);
        printf("Grantee[URI]:%s\n", $grant['Grantee']['URI']);
        printf("Permission:%s\n", $grant['Permission']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.17 PUT Bucket logging

API Description

You can use this API to configure access logging for a bucket.

Method Definition

1. ObsClient->setBucketLogging(array \$parameter)
2. ObsClient->setBucketLoggingAsync(array \$parameter, callable \$callback)

Request Parameter

Field		Type	Optional or Mandatory	Description	
Bucket		string	Mandatory	Bucket name	
Agency		string	Mandatory when configuring bucket logging	Agency name	
LoggingEnabled		associative array	Optional	Log configuration information	
	TargetBucket	string	Mandatory	Target bucket for which logs are generated	
	TargetPrefix	string	Mandatory	Name prefix of a to-be-logged object in the target bucket	
	TargetGrants	indexed array	Optional	List of grantees' permission information	
		Grantee	associative array	Grantee	
		Type	string	Mandatory	Grantee type

Field				Type	Optional or Mandatory	Description
			ID	string	Mandatory when Type is CanonicalUser . In other cases, leave it null.	ID of the domain to which the grantee belongs
			URI	string	Mandatory when Type is Group . In other cases, leave it null.	Grantee group
		Permission		string	Optional	Granted permission

Returned Result

Field		Type	Description	
HttpStatusCode		integer	HTTP status code	
Reason		string	Reason description	
RequestId		string	Request ID returned by the OBS server	
Agency		string	Agency name	
LoggingEnabled		associative array	Log configuration information	
	TargetBucket	string	Target bucket for which logs are generated	
	TargetPrefix	string	Name prefix of a to-be-logged object in the target bucket	
	TargetGrants	indexed array	List of grantees' permission information	
	Grantee	Grantee	associative array	Grantee
		ID	string	ID of the domain to which the grantee belongs. This field is null when Type of Grantee is Group .
		URI	string	Grantee group. This field is null when Type of Grantee is CanonicalUser .
Permission	string	Granted permission		

Sample Code

```
try{
    $resp = $obsClient -> getBucketLogging([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("LoggingEnabled[TargetBucket]:%s\n", $resp['LoggingEnabled']['TargetBucket']);
    printf("LoggingEnabled[TargetPrefix]:%s\n", $resp['LoggingEnabled']['TargetPrefix']);
    printf("TargetGrants\n");
    foreach ($resp['LoggingEnabled']['TargetGrants'] as $index => $grant){
        printf("Grants[%d]", $index + 1);
        printf("Grantee[ID]:%s\n", $grant['Grantee']['ID']);
        printf("Grantee[DisplayName]:%s\n", $grant['Grantee']['DisplayName']);
        printf("Grantee[URI]:%s\n", $grant['Grantee']['URI']);
        printf("Permission:%s\n", $grant['Permission']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.19 PUT Bucket policy

API Description

You can use this API to set a bucket policy. If the bucket already has a policy, the policy will be overwritten by the one specified in this request.

Method Definition

1. `ObsClient->setBucketPolicy(array $parameter)`
2. `ObsClient->setBucketPolicyAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Policy	string	Mandatory	Policy information in JSON format. For details about the format, see Bucket Policy Parameters .

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketPolicy([
        'Bucket' => 'bucketname',
        'Policy' => 'your policy'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

NOTICE

The bucket name contained in the **Resource** field in **Policy** must be the one specified for the bucket policy.

4.20 GET Bucket policy

API Description

You can use this API to obtain the bucket policy.

Method Definition

1. `ObsClient->getBucketPolicy(array $parameter)`
2. `ObsClient->getBucketPolicyAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Policy	string	Policy information in JSON format

Sample Code

```
try{
    $resp = $obsClient -> getBucketPolicy([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Policy:%s\n", $resp['Policy']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```


4.21 DELETE Bucket policy

API Description

You can use this API to delete a bucket policy.

Method Definition

1. `ObsClient->deleteBucketPolicy(array $parameter)`
2. `ObsClient->deleteBucketPolicyAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> deleteBucketPolicy([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
}catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.22 PUT Bucket lifecycle

API Description

You can use this API to set lifecycle rules for a bucket, so as to periodically delete objects in the bucket.

Method Definition

1. ObsClient->setBucketLifecycle(array \$parameter)
2. ObsClient->setBucketLifecycleAsync(array \$parameter, callable \$callback)

Request Parameter

Field		Type	Optional or Mandatory	Description	
Bucket		string	Mandatory	Bucket name	
Rules		indexed array	Mandatory	Lifecycle rules of the bucket	
	Transitions	indexed array	Optional	List of object transition policies	
		StorageClass	string	Mandatory	Storage class of the object after transition NOTE The Standard storage class is not supported.
		Date	string or \DateTime	Mandatory when Days is not set	Date when an object will be transited. The value must conform with the ISO8601 standards and must be at 00:00 (UTC time), for example, 2018-01-01 T00:00:00Z.

Field			Type	Optional or Mandatory	Description
		Days	integer	Mandatory when Date is not set	Number of days after which an object will be transited since its creation. The value must be a positive integer.
	Expiration		associative array	Optional	Expiration time of an object
		Date	string or \DateTime	Mandatory when Days is not set	Date when an object expires. If the value type is string , the value must conform to the ISO8601 standards and must be at 00:00 (UTC time), for example, 2018-01-01 T00:00:00Z.
		Days	integer	Mandatory when Date is not set	Number of days after which an object expires since its creation. The value must be a positive integer.

Field		Type	Optional or Mandatory	Description	
	ID	string	Optional	Rule ID. It is a 1-255 character string.	
	Prefix	string	Mandatory	Object name prefix identifying one or more objects to which the rule applies. The value can be empty, indicating that the rule applies to all objects in the bucket.	
	Status	string	Mandatory	Whether this rule is enabled. Possible values are: <ul style="list-style-type: none"> • Enabled • Disabled 	
	NoncurrentVersionTransitions		indexed array	Optional	List of noncurrent object version transition policies
		StorageClass	string	Mandatory	Storage class of the noncurrent object version after transition

Field			Type	Optional or Mandatory	Description
		Noncurrent Days	integer	Mandatory	Number of days after which an object will be transited since it becomes a noncurrent version. The parameter value must be a positive integer.
	NoncurrentVersionExpiration		associative array	Optional	Expiration time of a noncurrent object version
		Noncurrent Days	integer	Mandatory	Number of days after which an object expires since it becomes a noncurrent version. The field value must be a positive integer.

 **NOTE**

Transitions, Expiration, NoncurrentVersionTransitions, and NoncurrentVersionExpiration cannot be all null.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketLifecycle([
        'Bucket' => 'bucketname',
        'Rules' => [
            ['ID' => 'rule1', 'Prefix' => 'prefix1', 'Status' => 'Enabled', 'Expiration' => ['Days' => 60],
            'NoncurrentVersionExpiration' => ['NoncurrentDays' => 60]],
            ['ID' => 'rule2', 'Prefix' => 'prefix2', 'Status' => 'Enabled', 'Expiration' => ['Date' =>
            '2018-12-31T00:00:00Z']]
        ]
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.23 GET Bucket lifecycle

API Description

You can use this API to obtain the lifecycle rules of a bucket.

Method Definition

1. `ObsClient->getBucketLifecycle(array $parameter)`
2. `ObsClient->getBucketLifecycleAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field		Type	Description
HttpStatusCode		integer	HTTP status code
Reason		string	Reason description
RequestId		string	Request ID returned by the OBS server
Rules		indexed array	Lifecycle rules of the bucket
	Transitions	indexed array	List of object transition policies
	Storage Class	string	Storage class of the object after transition
	Date	string	Date when an object will be transited
	Days	string	Number of days after which an object will be transited since its creation
	Expiration	associative array	Expiration time of an object
	Date	string	Date when an object expires
	Days	integer	Number of days after which an object expires since its creation
	ID	string	Rule ID
	Prefix	string	Object name prefix identifying one or more objects to which the rule applies
	Status	string	Whether the rule is enabled
	NoncurrentVersionTransitions	indexed array	List of noncurrent object version transition policies
	Storage Class	string	Storage class of the noncurrent object version after transition
	NoncurrentDays	string	Number of days after which an object will be transited since it becomes a noncurrent version
	NoncurrentVersionExpiration	associative array	Expiration time of a noncurrent object version
	NoncurrentDays	integer	Number of days after which an object expires since it becomes a noncurrent version

Sample Code

```
try{
    $resp = $obsClient -> getBucketLifecycle([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    foreach ($resp['Rules'] as $index => $rule){
        printf("Rules[%d]\n", $index + 1);
        printf("ID:%s\n", $rule['ID']);
        printf("Prefix:%s\n", $rule['Prefix']);
        printf("Status:%s\n", $rule['Status']);
        printf("Expiration[Days]:%s\n", $rule['Expiration']['Days']);
        printf("Expiration[Date]:%s\n", $rule['Expiration']['Date']);
        printf("NoncurrentVersionExpiration[NoncurrentDays]:%s\n", $rule['NoncurrentVersionExpiration']
['NoncurrentDays']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.24 DELETE Bucket lifecycle

API Description

You can use this API to delete all lifecycle rules of a bucket.

Method Definition

1. `ObsClient->deleteBucketLifecycle(array $parameter)`
2. `ObsClient->deleteBucketLifecycleAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> deleteBucketLifecycle([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.25 PUT Bucket website

API Description

You can use this API to set website hosting for a bucket.

Method Definition

1. ObsClient->setBucketWebsite(array \$parameter)
2. ObsClient->setBucketWebsiteAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
RedirectAllRequestsTo	associative array	Optional	Redirection rule of all requests
	HostName	Mandatory	Host name used for redirection
	Protocol	Optional	Protocol used for redirection. Possible values are: <ul style="list-style-type: none"> • http (default) • https
ErrorDocument	associative array	Optional	Error page settings
	Key	Optional	Page that is returned when a 4XX error occurs
IndexDocument	associative array	Optional	Default page settings

Field		Type	Optional or Mandatory	Description
	Suffix	string	Mandatory	Suffix that is appended to a request initiated for a folder. For example, if the suffix is index.html and you request for samplebucket/images/ , the returned data will be the object named images/index.html in the samplebucket bucket. The suffix can neither be null nor contain slashes (/).
RoutingRules		indexed array	Optional	Redirection rule list
	Condition	associative array	Optional	Matching condition of a redirection rule
	HttpErrorC odeReturn edEquals	string	Optional	HTTP error code to be matched when a redirection rule takes effect
	KeyPrefixE quals	string	Optional	Object name prefix to be matched when a redirection rule takes effect
Redirect		associative array	Mandatory	Details about a redirection request
	Protocol	string	Optional	Protocol used for redirection. Possible values are: <ul style="list-style-type: none"> • http • https
	HostName	string	Optional	Host name used for redirection
	ReplaceKey PrefixWith	string	Optional	Object name prefix used in the redirection request
	ReplaceKey With	string	Optional	Object name used in the redirection request. This parameter cannot be used together with ReplaceKeyPrefix- With .
	HttpRedire ctCode	string	Optional	HTTP status code in the response to the redirection request

 NOTE

- **ErrorDocument**, **IndexDocument**, and **RoutingRules** must be used together and they cannot be used with **RedirectAllRequestsTo**.
- When **ErrorDocument**, **IndexDocument**, and **RoutingRules** are used together, **RoutingRules** can be null.
- You must set either these three fields or **RedirectAllRequestsTo**.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketWebsite([
        'Bucket' => 'bucketname',
        'RedirectAllRequestsTo' => ['HostName' => 'www.example.com', 'Protocol' => 'https'],
        'IndexDocument' => ['Suffix' => 'index.html'],
        'ErrorDocument' => ['Key' => 'error.html'],
        'RoutingRules' => [
            ['Condition' => ['HttpErrorCodeReturnedEquals' => 404, 'KeyPrefixEquals' => 'prefix'],
            'Redirect' => ['Protocol' => 'http', 'ReplaceKeyWith' => 'key']],
            ['Condition' => ['HttpErrorCodeReturnedEquals' => 404, 'KeyPrefixEquals' => 'prefix'],
            'Redirect' => ['Protocol' => 'http', 'ReplaceKeyWith' => 'key']]
        ]
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.26 GET Bucket website

API Description

You can use this API to obtain the website hosting settings of a bucket.

Method Definition

1. `ObsClient->getBucketWebsite(array $parameter)`
2. `ObsClient->getBucketWebsiteAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field		Type	Description
HttpStatusCode		integer	HTTP status code
Reason		string	Reason description
RequestId		string	Request ID returned by the OBS server
RedirectAllRequestsTo		associative array	Redirection rule of all requests
	Host Name	string	Host name used for redirection
	Protocol	string	Host name used for redirection
ErrorDocument		associative array	Error page settings
	Key	string	Page that is returned when a 4XX error occurs
IndexDocument		associative array	Default page settings
	Suffix	string	Suffix that is appended to a request initiated for a folder. For example, if the suffix is index.html and you request for samplebucket/images/ , the returned data will be the object named images/index.html in the samplebucket bucket. The suffix can neither be null nor contain slashes (/).

Field	Type	Description
RoutingRules	indexed array	Redirection rule list
Condition	associative array	Matching condition of a redirection rule
HttpErrorCodeReturnedEquals	integer	HTTP error code to be matched when a redirection rule takes effect
KeyPrefixEquals	string	Object name prefix to be matched when a redirection rule takes effect
Redirect	associative array	Details about a redirection request
Protocol	string	Protocol used for redirection
HostName	string	Host name used for redirection
ReplaceKeyPrefixWith	string	Object name prefix used in the redirection request
ReplaceKeyWith	string	Object name used in the redirection request. This parameter cannot be used together with ReplaceKeyPrefixWith .
HttpRedirectCode	integer	HTTP status code in the response to the redirection request

Sample Code

```
try{
    $resp = $obsClient -> getBucketWebsite([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("ErrorDocument[Key]:%s\n", $resp['ErrorDocument']['Key']);
    printf("IndexDocument[Suffix]:%s\n", $resp['IndexDocument']['Suffix']);
    foreach ($resp['RoutingRules'] as $index => $routingRule){
        printf("RoutingRules[%d]", $index + 1);
        printf("Condition[HttpErrorCodeReturnedEquals]:%s\n", $routingRule['Condition']
['HttpErrorCodeReturnedEquals']);
        printf("Condition[KeyPrefixEquals]:%s\n", $routingRule['Condition']['KeyPrefixEquals']);
        printf("Redirect[Protocol]:%s\n", $routingRule['Redirect']['Protocol']);
        printf("Redirect[ReplaceKeyWith]:%s\n", $routingRule['Redirect']['ReplaceKeyWith']);
        printf("Redirect[HttpRedirectCode]:%s\n", $routingRule['Redirect']['HttpRedirectCode']);
        printf("Redirect[HostName]:%s\n", $routingRule['Redirect']['HostName']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.27 DELETE Bucket website

API Description

You can use this API to delete the website hosting settings of a bucket.

Method Definition

1. `ObsClient->deleteBucketWebsite(array $parameter)`
2. `ObsClient->deleteBucketWebsiteAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> deleteBucketWebsite([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.28 PUT Bucket versioning

API Description

You can use this API to set the versioning status for a bucket.

Method Definition

1. `ObsClient->setBucketVersioning(array $parameter)`
2. `ObsClient->getBucketVersioningAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Status	string	Mandatory	Versioning status of the bucket. Possible values are: <ul style="list-style-type: none">• Enabled• Suspended

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketVersioning([
        'Bucket' => 'bucketname',
        'Status' => 'Enabled'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
}catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.29 GET Bucket versioning

API Description

You can use this API to obtain the versioning status of a bucket.

Method Definition

1. `ObsClient->getBucketVersioning(array $parameter)`
2. `ObsClient->getBucketVersioningAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Status	string	Versioning status of the bucket

Sample Code

```
try{
    $resp = $obsClient -> getBucketVersioning([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("Status:%s\n", $resp['Status']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.30 PUT Bucket cors

API Description

You can use this API to set CORS rules for a bucket to allow client browsers to send cross-domain requests.

Method Definition

1. `ObsClient->setBucketCors(array $parameter)`
2. `ObsClient->setBucketCorsAsync(array $parameter, callable $callback)`

Request Parameter

Field		Type	Optional or Mandatory	Description
Bucket		string	Mandatory	Bucket name
CorsRules		indexed array	Mandatory	CORS rules of the bucket
	ID	string	Optional	CORS rule ID. It is a 1-255 character string.
	AllowedMethod	indexed array of strings	Mandatory	HTTP methods allowed by the CORS rule. Possible values are: <ul style="list-style-type: none">• GET• PUT• HEAD• POST• DELETE
	AllowedOrigin	indexed array of strings	Mandatory	Origins (character strings representing domain names) allowed by the CORS rule. Each AllowedOrigin can contain up to one wildcard character (*).
	AllowedHeader	indexed array of strings	Optional	Request headers allowed by the CORS rule. Each AllowedHeader can contain up to one wildcard character (*).
	MaxAgeSeconds	integer	Optional	Cache duration (in seconds) of the cross-region request result in the client allowed by the CORS rule. The value must be an integer.
	ExposeHeader	indexed array of strings	Optional	Additional response headers allowed by the CORS rule. It cannot contain spaces.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description

Field	Type	Description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketCors([
        'Bucket' => 'bucketname',
        'CorsRules' => [
            [
                'ID' => 'rule1',
                'AllowedMethod' => ['PUT','POST','GET','DELETE','HEAD'],
                'AllowedOrigin' => ['obs.hostname','obs.hostname1'],
                'AllowedHeader' => ['obs-header-1'],
                'MaxAgeSeconds' => 60
            ],
            [
                'ID' => 'rule2',
                'AllowedMethod' => ['PUT','POST','GET'],
                'AllowedOrigin' => ['obs.hostname','obs.hostname1'],
                'AllowedHeader' => ['header-1','header-2'],
                'MaxAgeSeconds' => 50
            ]
        ]
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.31 GET Bucket cors

API Description

You can use this API to obtain the CORS rules of a specified bucket.

Method Definition

1. ObsClient->setBucketCors(array \$parameter)
2. ObsClient->setBucketCorsAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description	
HttpStatusCode	integer	HTTP status code	
Reason	string	Reason description	
RequestId	string	Request ID returned by the OBS server	
CorsRules	indexed array	CORS rules of the bucket	
	ID	string	CORS rule ID
	AllowedMethod	indexed array of strings	HTTP methods allowed by the CORS rule
	AllowedOrigin	indexed array of strings	Origins (character strings representing domain names) allowed by the CORS rule
	AllowedHeader	indexed array of strings	Request headers allowed by the CORS rule
	MaxAgeSecond	integer	Cache duration (in seconds) of the cross-region request result in the client allowed by the CORS rule. The value must be an integer.
	ExposeHeader	indexed array of strings	Additional response headers allowed by the CORS rule

Sample Code

```
try{
    $resp = $obsClient -> getBucketCors([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    foreach ($resp['CorsRules'] as $index => $corsRule){
        printf("CorsRule[%d]\n", $index + 1);
        printf("MaxAgeSeconds:%s\n", printf_r($corsRule['MaxAgeSeconds'], true));
        printf("AllowedMethod:%s\n", printf_r($corsRule['AllowedMethod'], true));
        printf("AllowedOrigin:%s\n", printf_r($corsRule['AllowedOrigin'], true));
        printf("AllowedHeader:%s\n", printf_r($corsRule['AllowedHeader'], true));
        printf("ExposeHeader:%s\n", printf_r($corsRule['ExposeHeader'], true));
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.32 DELETE Bucket cors

API Description

You can use this API to delete the CORS rules of a specified bucket.

Method Definition

1. `ObsClient->setBucketCors(array $parameter)`
2. `ObsClient->setBucketCorsAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> deleteBucketCors([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.33 PUT Bucket tagging

API Description

You can use this API to set bucket tags.

Method Definition

1. `ObsClient->setBucketTagging(array $parameter)`
2. `ObsClient->setBucketTaggingAsync(array $parameter, callable $callback)`

Request Parameter

Field		Type	Optional or Mandatory	Description
Bucket		string	Mandatory	Bucket name
Tags		indexed array	Mandatory	Bucket tag set
	Key	string	Mandatory	Tag name, which contains 1 to 36 characters and cannot include non-printable ASCII characters (0-31) and the following special characters: *<>\\=. The tag keys in one bucket must be unique.
	Value	string	Mandatory	Tag value, which can contain up to 43 characters and cannot include non-printable ASCII characters (0-31) and the following special characters: *<>\\=

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> setBucketTagging([
        'Bucket' => 'bucketname',
        'Tags' => [
            ['Key' => 'tag1', 'Value' => 'value1'],
            ['Key' => 'tag2', 'Value' => 'value2']
        ]
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
}catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
}
```

```
}  
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());  
}
```

4.34 GET Bucket tagging

API Description

You can use this API to obtain tags of a specified bucket.

Method Definition

1. `ObsClient->getBucketTagging(array $parameter)`
2. `ObsClient->getBucketTaggingAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description	
HttpStatusCode	integer	HTTP status code	
Reason	string	Reason description	
RequestId	string	Request ID returned by the OBS server	
Tags	indexed array	Bucket tag set	
	Key	string	Tag name, which can contain up to 36 characters
	Value	string	Tag value, which can contain up to 43 characters

Sample Code

```
try{  
    $resp = $obsClient -> getBucketTagging([  
        'Bucket' => 'bucketname'  
    ]);  
    printf("RequestId:%s\n", $resp['RequestId']);  
    foreach ($resp['Tags'] as $index => $tag){
```

```
        printf("TagSet[%d]\n", $index + 1);
        printf("Key:%s\n", $tag['Key']);
        printf("Value:%s\n", $tag['Value']);
    }
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

4.35 DELETE Bucket tagging

API Description

You can use this API to delete the tags of a specified bucket.

Method Definition

1. `ObsClient->deleteBucketTagging(array $parameter)`
2. `ObsClient->deleteBucketTaggingAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try{
    $resp = $obsClient -> deleteBucketTagging([
        'Bucket' => 'bucketname'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

5 Objects-Related APIs

5.1 PUT Object

API Description

You can use this API to upload an object to a specified bucket.

Method Definition

1. `ObsClient->putObject(array $parameter)`
2. `ObsClient->putObjectAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
ACL	string	Optional	Pre-defined access control policy specified during object creation
StorageClass	string	Optional	Storage class , which can be specified during the object creation

Field	Type	Optional or Mandatory	Description
Body	string or resource or GuzzleHttp \Psr7\StreamInterface	Optional	Object content to be uploaded
SourceFile	string	Optional	Path to the source file of the object
Metadata	associative array	Optional	Customized metadata of the object
WebsiteRedirect-Location	string	Optional	Location where the object is redirected to, when the bucket is configured with website hosting.
ContentType	string	Optional	MIME type of the object
ContentLength	integer	Optional	Object size in bytes
ContentMD5	string	Optional	Base64-encoded MD5 value of the object data to be uploaded. It is provided for the OBS server to verify data integrity.
SseKms	string	Optional	Algorithm used in SSE-KMS encryption. The value can be: <ul style="list-style-type: none">• kms
SseKmsKey	string	Optional	Master key used in SSE-KMS encryption. The value can be null.
SseC	string	Optional	Algorithm used in SSE-C encryption. The value can be: <ul style="list-style-type: none">• AES256
SseCKey	string	Optional	Key used in SSE-C encryption. It is calculated by using AES-256.

 **NOTE**

- **Body** and **SourceFile** cannot be used together.
- If both **Body** and **SourceFile** are null, the size of the object to be uploaded is 0 bytes.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
ObjectURL	string	Object URL
ETag	string	Object ETag
VersionId	string	Object version ID
StorageClass	string	Storage class of the object. When the storage class is OBS Standard, the value is null.
SseKms	string	Algorithm used in SSE-KMS encryption
SseKmsKey	string	Key used in SSE-KMS encryption
SseC	string	Algorithm used in SSE-C encryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C encryption

Sample Code

```
try{
    $resp = $obsClient -> putObject([
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'Metadata' => ['meta1' => 'value1', 'meta2' => 'value2'],
//
        'SourceFile' => 'localfile',
        'Body' => 'Hello OBS',
        'ContentType' => 'text/plain'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("VersionId:%s\n", $resp['VersionId']);
    printf("StorageClass:%s\n", $resp['StorageClass']);
    printf("ETag:%s\n", $resp['ETag']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

5.2 GET Object

API Description

You can use this API to download an object in a specified bucket.

Method Definition

1. ObsClient->getObject(array \$parameter)
2. ObsClient->getObjectAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
VersionId	string	Optional	Object version ID
IfMatch	string	Optional	Returns the source object if its ETag is the same as the one specified by this parameter; otherwise, an exception is thrown.
IfModifiedSince	string or \DateTime	Optional	Returns the object if it is modified after the time specified by this parameter; otherwise, an exception is thrown. If this parameter value is a character string, it must conform to the HTTP time format specified in http://www.ietf.org/rfc/rfc2616.txt .
IfNoneMatch	string	Optional	Returns the source object if its ETag is different from the one specified by this parameter; otherwise, an exception is thrown.
IfUnmodifiedSince	string or \DateTime	Optional	Returns the object if it remains unchanged since the time specified by this parameter; otherwise, an exception is thrown. If this parameter value is a character string, it must conform to the HTTP time format specified in http://www.ietf.org/rfc/rfc2616.txt .
Range	string	Optional	Download range. The value range is [0, object length-1] and is in the format of bytes = x-y. The maximum length of Range is the length of the object minus 1. If it exceeds this value, the length of the object minus 1 is used.
Origin	string	Optional	Origin of the cross-domain request specified by the pre-request. Generally, it is a domain name.

Field	Type	Optional or Mandatory	Description
RequestHeader	string	Optional	HTTP header in a cross-domain request
ResponseCacheControl	string	Optional	Rewrites the Cache-Control header in the response.
ResponseContentDisposition	string	Optional	Rewrites the Content-Disposition header in the response.
ResponseContentEncoding	string	Optional	Rewrites the Content-Encoding header in the response.
ResponseContentLanguage	string	Optional	Rewrites the Content-Language header in the response.
ResponseContentType	string	Optional	Rewrites the Content-Type header in the response.
ResponseExpires	string	Optional	Rewrites the Expires header in the response.
SaveAsFile	string	Optional	Target path to which the object is downloaded (containing the file name)
SaveAsStream	boolean	Optional	Whether to return the object in the format of data stream
FilePath	string	Optional	Target path to which the object is downloaded (containing the file name). This is a deprecated parameter and is used to maintain compatibility with earlier versions.
SseC	string	Optional	Algorithm used in SSE-C decryption. The value can be: <ul style="list-style-type: none">• AES256
SseCKey	string	Optional	Key used in SSE-C decryption, which is calculated by using AES-256.

 NOTE

- If **SaveAsStream** is **true**, it cannot be used with **SaveAsFile** or **FilePath**.
- **SaveAsFile** and **FilePath** cannot be used together.
- If the download request includes **IfUnmodifiedSince** or **IfMatch** and **IfUnmodifiedSince** or **IfMatch** is not met, an exception will be thrown with HTTP status code **412 Precondition Failed**.
- If the download request includes **IfModifiedSince** or **IfNoneMatch** and **IfModifiedSince** or **IfNoneMatch** is not met, an exception will be thrown with HTTP status code **304 Not Modified**.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
DeleteMarker	boolean	Whether the deleted object is a delete marker
LastModified	string	Time when the last modification was made to the object
ContentLength	integer	Object size in bytes
CacheControl	string	Cache-Control header in the response
ContentDisposition	string	Content-Disposition header in the response
ContentEncoding	string	Content-Encoding header in the response
ContentLanguage	string	Content-Language header in the response
ContentType	string	MIME type of the object
Expires	string	Expires header in the response
ETag	string	Object ETag
VersionId	string	Object version ID
WebsiteRedirectLocation	string	Location where the object is redirected to, when the bucket is configured with website hosting.
StorageClass	string	Storage class of the object. When the storage class is STANDARD , the value is null.
Restore	string	Restore status of the object in the OBS Archive storage class

Field	Type	Description
AllowOrigin	string	If Origin in the request meets the CORS rules of the bucket, AllowedOrigin in the CORS rules is returned.
AllowHeader	string	If RequestHeader in the request meets the CORS rules of the bucket, AllowedHeader in the CORS rules is returned.
AllowMethod	string	AllowedMethod in the CORS rules of the bucket
ExposeHeader	string	ExposeHeader in the CORS rules of the bucket
MaxAgeSeconds	string	MaxAgeSeconds in the CORS rules of the bucket
SseKms	string	Algorithm used in SSE-KMS decryption
SseKmsKey	string	Master key used in SSE-KMS decryption
SseC	string	Algorithm used in SSE-C decryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C decryption
Expiration	string	Expiration details
Body	GuzzleHttp\Psr7\Stream	Object content. If SaveAsFile is set, this field is null. If SaveAsStream is set to true , this field is a readable stream. You need to call the GuzzleHttp\Psr7\Stream->read method to read the data.
SaveAsFile	string	Target path to which the object is downloaded (containing the file name), which is consistent with that set in the request
Metadata	associative array	Customized metadata of the object

Sample Code

```
try{
    $resp = $obsClient -> getObject([
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        // 'SaveAsFile' => 'localfile',
        // 'SaveAsStream' => true,
        'Range' => 'bytes=0-10'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("ETag:%s\n", $resp['ETag']);
}
```

```

printf("VersionId:%s\n", $resp['VersionId']);
printf("StorageClass:%s\n", $resp['StorageClass']);
printf("ContentLength:%s\n", $resp['ContentLength']);
printf("DeleteMarker:%s\n", $resp['DeleteMarker']);
printf("LastModified:%s\n", $resp['LastModified']);
printf("Body:%s\n", $resp['Body']);
printf("Metadata:%s\n", print_r($resp['Metadata'], true));
} catch (Obs\Common\ObsException $obsException) {
printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}

```

5.3 PUT Object - Copy

API Description

You can use this API to create a copy for an object in a specified bucket.

Method Definition

1. ObsClient->copyObject(array \$parameter)
2. ObsClient->copyObjectAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Target bucket name
Key	string	Mandatory	Target object name
ACL	string	Optional	Pre-defined access control policy specified during object copy
StorageClass	string	Optional	Storage class of the object. Possible values are:
CopySource	string	Mandatory	Parameter used to specify the source bucket, source object, and source object version ID which can be null. It is in the format of <i>SourceBucketName/SourceObjectName?versionId=SourceObjectVersionId</i> .
CopySourceIfMatch	string	Optional	Copies the source object if its ETag is the same as the one specified by this parameter; otherwise, an exception is thrown.

Field	Type	Optional or Mandatory	Description
CopySourceIfModifiedSince	string or \DateTime	Optional	Copies the source object if it is changed after the time specified by this parameter; otherwise, an exception is thrown. If this parameter value is a character string, it must conform to the HTTP time format specified in http://www.ietf.org/rfc/rfc2616.txt .
CopySourceIfNoneMatch	string	Optional	Copies the source object if its ETag is different from the one specified by this parameter; otherwise, an exception is thrown.
CopySourceIfUnmodifiedSince	string or \DateTime	Optional	Copies the source object if it is changed before the time specified by this parameter; otherwise, an exception is thrown. If this parameter value is a character string, it must conform to the HTTP time format specified in http://www.ietf.org/rfc/rfc2616.txt .
CacheControl	string	Optional	Rewrites the Cache-Control header in the response.
ContentDisposition	string	Optional	Rewrites the Content-Disposition header in the response.
ContentEncoding	string	Optional	Rewrites the Content-Encoding header in the response.
ContentLanguage	string	Optional	Rewrites the Content-Language header in the response.
ContentType	string	Optional	Rewrites the Content-Type header in the response.
Expires	string	Optional	Rewrites the Expires header in the response.
MetadataDirective	string	Optional	Replication policy
Metadata	associative array	Optional	Customized metadata of the target object
WebsiteRedirectLocation	string	Optional	Location where the object is redirected to, when the bucket is configured with website hosting.

Field	Type	Optional or Mandatory	Description
SseKms	string	Optional	Algorithm used to encrypt the target object in SSE-KMS mode. The value can be: <ul style="list-style-type: none"> kms
SseKmsKey	string	Optional	Master key used to encrypt the target object in SSE-KMS mode. The value can be null.
SseC	string	Optional	Algorithm used to encrypt the target object in SSE-C mode. The value can be: <ul style="list-style-type: none"> AES256
SseCKey	string	Optional	Key used to encrypt the target object in SSE-C mode, which is calculated by using AES-256
CopySourceSseC	string	Optional	Algorithm used to decrypt the source object in SSE-C mode. The value can be: <ul style="list-style-type: none"> AES256
CopySourceSseCKey	string	Optional	Key used to decrypt the source object in SSE-C mode, which is calculated by using AES-256

 NOTE

- If the object copy request includes **CopySourceIfUnmodifiedSince**, **CopySourceIfMatch**, **CopySourceIfModifiedSince**, or **CopySourceIfNoneMatch**, and the specified condition is not met, an exception will be thrown with HTTP status code **412 Precondition Failed** returned.
- **CopySourceIfModifiedSince** and **CopySourceIfNoneMatch** can be used together. So do **CopySourceIfUnmodifiedSince** and **CopySourceIfMatch**.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
ETag	string	ETag of the target object

Field	Type	Description
LastModified	string	Time when the last modification was made to the object
VersionId	string	Version ID of the target object. This field is null if versioning is not enabled for the target bucket.
CopySourceVersionId	string	Version ID of the source object. This field is null if versioning is not enabled for the source bucket.
SseKms	string	Algorithm used in SSE-KMS encryption
SseKmsKey	string	Master key used in SSE-KMS encryption
SseC	string	Algorithm used in SSE-C encryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C encryption

Sample Code

```
try{
    $resp = $obsClient -> copyObject([
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'CopySource' => 'srcbucketname/srcobjectkey',
        'Metadata' => ['meta1' => 'value1']
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
    printf("ETag:%s\n", $resp['ETag']);
    printf("VersionId:%s\n", $resp['VersionId']);
    printf("CopySourceVersionId:%s\n", $resp['CopySourceVersionId']);
    printf("LastModified:%s\n", $resp['LastModified']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

5.4 DELETE Object

API Description

You can use this API to delete an object from a specified bucket.

Method Definition

- ObsClient->deleteObject(array \$parameter)
- ObsClient->deleteObject(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
VersionId	string	Optional	Version ID of the object to be deleted

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
DeleteMarker	boolean	Whether the deleted object is a delete marker
VersionId	string	Version ID of the object to be deleted

Sample Code

```
try{
    $resp = $obsClient -> deleteObject([
        'Bucket' => 'bucketname',
        'Key' => 'objectkey'
    ]);
    printf("RequestId:%s\n", $resp['RequestId']);
} catch (Obs\Common\ObsException $obsException){
    printf("ExceptionCode:%s\n", $obsException->getExceptionCode());
    printf("ExceptionMessage:%s\n", $obsException->getExceptionMessage());
}
```

5.5 DELETE Objects

API Description

You can use this API to batch delete objects from a specified bucket.

Method Definition

- ObsClient->deleteObjects(array \$parameter)
- ObsClient->deleteObjectsAsync(array \$parameter, callable \$callback)

Request Parameter

Field		Type	Optional or Mandatory	Description
Bucket		string	Mandatory	Bucket name
Objects		indexed array	Mandatory	List of objects to be deleted
	Key	string	Mandatory	Object name
	VersionId	string	Optional	Version ID of the object to be deleted
Quiet		boolean	Optional	Response mode of a batch deletion request. If this field is set to false , objects involved in the deletion will be returned. If this field is set to true , only objects failed to be deleted will be returned.

Returned Result

Field		Type	Description
HttpStatusCode		integer	HTTP status code
Reason		string	Reason description
RequestId		string	Request ID returned by the OBS server
Deleted		indexed array	List of successfully deleted objects
	Key	string	Object name
	VersionId	string	Object version ID
	DeleteMarker	boolean	Whether the deleted object is a delete marker
	DeleteMarkerVersionId	string	Version ID of the delete marker
Errors		indexed array	List of objects failed to be deleted
	Key	string	Object name

Field	Type	Description
VersionId	string	Object version ID
Code	string	Error code of the deletion failure
Message	string	Error message of the deletion failure

Sample Code

```
try {
    $resp = $obsClient->deleteObjects ( [
        'Bucket' => 'bucketname',
        'Quiet' => false,
        'Objects' => [
            [
                'Key' => 'objectkey1',
                'VersionId' => null
            ],
            [
                'Key' => 'objectkey2',
                'VersionId' => null
            ]
        ]
    ] );
    printf ( "RequestId:%s\n", $resp ['RequestId'] );
    printf ( "Deleted:s:\n" );
    foreach ( $resp ['Deleted:s'] as $index => $deleted ) {
        printf ( "Deleted:s[%d]", $index + 1 );
        printf ( "Key:%s\n", $deleted ['Key'] );
        printf ( "VersionId:%s\n", $deleted ['VersionId'] );
        printf ( "DeleteMarker:%s\n", $deleted ['DeleteMarker'] );
        printf ( "DeleteMarkerVersionId:%s\n", $deleted ['DeleteMarkerVersionId'] );
    }
    printf ( "Errors:\n" );
    foreach ( $resp ['Errors'] as $index => $error ) {
        printf ( "Errors[%d]", $index + 1 );
        printf ( "Key:%s\n", $error ['Key'] );
        printf ( "VersionId:%s\n", $error ['VersionId'] );
        printf ( "Code:%s\n", $error ['Code'] );
        printf ( "Message:%s\n", $error ['Message'] );
    }
} catch ( Obs\Common\ObsException $obsException ) {
    printf("StatusCode:%s\n", $obsException->getStatusCode());
}
```

5.6 Obtain Object Metadata

API Description

You can use this API to send a HEAD request to the object of a specified bucket to obtain its metadata.

Method Definition

1. `ObsClient->getObjectMetadata(array $parameter)`
2. `ObsClient->getObjectMetadataAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
VersionId	string	Optional	Object version ID
Origin	string	Optional	Origin of the cross-domain request specified by the pre-request. Generally, it is a domain name.
RequestHeader	string	Optional	HTTP header in a cross-domain request
SseC	string	Optional	Algorithm used in SSE-C decryption. The value can be: <ul style="list-style-type: none">• AES256
SseCKey	string	Optional	Key used in SSE-C decryption, which is calculated by using AES-256

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
LastModified	string	Time when the last modification was made to the object
ContentLength	integer	Object size in bytes
ContentType	string	MIME type of the object
ETag	string	Object ETag
VersionId	string	Object version ID
WebsiteRedirectLocation	string	Location where the object is redirected to, when the bucket is configured with website hosting.

Field	Type	Description
StorageClass	string	Storage class of the object. When the storage class is OBS Standard, the value is null.
Restore	string	Restore status of the object in the OBS Archive storage class
AllowOrigin	string	If Origin in the request meets the CORS rules of the bucket, AllowedOrigin in the CORS rules is returned.
AllowHeader	string	If RequestHeader in the request meets the CORS rules of the bucket, AllowedHeader in the CORS rules is returned.
AllowMethod	string	AllowedMethod in the CORS rules of the bucket
ExposeHeader	string	ExposeHeader in the CORS rules of the bucket
MaxAgeSeconds	integer	MaxAgeSeconds in the CORS rules of the bucket
SseKms	string	Algorithm used in SSE-KMS decryption
SseKmsKey	string	Master key used in SSE-KMS decryption
SseC	string	Algorithm used in SSE-C decryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C decryption
Expiration	string	Expiration details
Metadata	associative array	Customized metadata of the object

Sample Code

```
try {
    $resp = $obsClient->getObjectMetadata( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey'
    ] );
    printf ( "RequestId:%s\n", $resp ['RequestId'] );
    printf ( "ETag:%s\n", $resp ['ETag'] );
    printf ( "VersionId:%s\n", $resp ['VersionId'] );
    printf ( "ContentLength:%s\n", $resp ['ContentLength'] );
    printf ( "LastModified:%s\n", $resp ['LastModified'] );
    printf ( "Expiration:%s\n", $resp ['Expiration'] );
    printf ( "StorageClass:%s\n", $resp ['StorageClass'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.7 PUT Object acl

API Description

You can use this API to set the ACL for an object in a specified bucket.

Method Definition

1. ObsClient->setObjectAcl(array \$parameter)
2. ObsClient->setObjectAclAsync(array \$parameter, callable \$callback)

Request Parameter

Field		Type	Optional or Mandatory	Description
Bucket		string	Mandatory	Bucket name
Key		string	Mandatory	Object name
VersionId		string	Optional	Object version ID
ACL		string	Optional	Pre-defined access control policy
Owner		associative array	Optional	Object owner
	ID	string	Mandatory	ID of the domain to which the object owner belongs
Delivered		boolean	Optional	Whether the bucket ACL is applied to objects in the bucket
Grants		indexed array	Optional	List of grantees' permission information
	Grantee	Object	Mandatory	Grantee
	Type	string	Mandatory	Grantee type

Field		Type	Optional or Mandatory	Description
	ID	string	Mandatory when Type is CanonicalUser . In other cases, leave it null.	ID of the domain to which the grantee belongs
	URI	string	Mandatory when Type is Group . In other cases, leave it null.	Grantee group
	Permission	string	Mandatory	Granted permission

 **NOTE**

- **Owner** and **Grants** must be used together and they cannot be used with **ACL**.
- You must set either the two fields or **ACL**.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	String	Request ID returned by the OBS server

Sample Code

```
try {
    $resp = $obsClient->setObjectAcl( [
```

```
'Bucket' => 'bucketname',
'Key' => 'objectkey',
'Owner' => ['ID' => 'ownerid'],
'Grants' => [
    ['Grantee' => ['Type' => 'CanonicalUser', 'ID' => 'userid'], 'Permission' =>
ObsClient::PermissionRead],
    ['Grantee' => ['Type' => 'CanonicalUser', 'ID' => 'userid'], 'Permission' =>
ObsClient::PermissionWriteAcp],
    ['Grantee' => ['Type' => 'Group', 'URI' => ObsClient::GroupAuthenticatedUsers],
'Permission' => ObsClient::PermissionWriteAcp],
    ['Grantee' => ['Type' => 'Group', 'URI' => ObsClient::GroupAuthenticatedUsers],
'Permission' => ObsClient::PermissionRead],
    ]
    ];
    printf( "RequestId:%s\n", $resp ['RequestId'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.8 GET Object acl

API Description

You can use this API to obtain an object ACL in a specified bucket.

Method Definition

1. ObsClient->getObjectAcl(array \$parameter)
2. ObsClient->getObjectAclAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
VersionId	string	Optional	Object version ID

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Field		Type	Description
VersionId		string	Object version ID
Owner		associative array	Object owner
	ID	string	ID of the domain to which the object owner belongs
Delivered		boolean	Whether the bucket ACL is applied to objects in the bucket
Grants		indexed array	List of grantees' permission information
	Grantee	associative array	Grantee
	ID	string	ID of the domain to which the grantee belongs. This field is null when Type of Grantee is Group .
	URI	string	Grantee group. This field is null when Type of Grantee is CanonicalUser .
	Permission	string	Granted permission

Sample Code

```
try {
    $resp = $obsClient->getObjectAcl( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey'
    ] );
    printf( "RequestId:%s\n", $resp ['RequestId'] );
    printf("Owner[ID]:%s\n", $resp['Owner']['ID']);
    printf("Grants\n");
    foreach ($resp['Grants'] as $index => $grant){
        printf("Grants[%d]", $index + 1);
        printf("Grantee[ID]:%s\n", $grant['Grantee']['ID']);
        printf("Grantee[URI]:%s\n", $grant['Grantee']['URI']);
        printf("Permission:%s\n", $grant['Permission']);
    }
} catch ( Obs\Common\ObsException $obsException ) {
    printf( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.9 Initiate Multipart Upload

API Description

You can use this API to initialize a multipart upload in a specified bucket.

Method Definition

1. ObsClient->initiateMultipartUpload(array \$parameter)
2. ObsClient->initiateMultipartUploadAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
ACL	string	Optional	Pre-defined access control policy
StorageClass	string	Optional	Storage class of the object
Metadata	associative array	Optional	Customized metadata of the object
WebsiteRedirect-Location	string	Optional	Location where the object is redirected to, when the bucket is configured with website hosting.
ContentType	string	Optional	MIME type of the object
SseKms	string	Optional	Algorithm used in SSE-KMS encryption. The value can be: <ul style="list-style-type: none">• kms
SseKmsKey	string	Optional	Master key used in SSE-KMS encryption. The value can be null.
SseC	string	Optional	Algorithm used in SSE-C encryption. The value can be: <ul style="list-style-type: none">• AES256
SseCKey	string	Optional	Key used in SSE-C encryption. It is calculated by using AES-256.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Field	Type	Description
Bucket	string	Name of the bucket involved in the multipart upload
Key	string	Name of the object to be uploaded
UploadId	string	Multipart upload ID
SseKms	string	Algorithm used in SSE-KMS encryption
SseKmsKey	string	Key used in SSE-KMS encryption
SseC	string	Algorithm used in SSE-C encryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C encryption

Sample Code

```
try {
    $resp = $obsClient->initiateMultipartUpload( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'ContentType' => 'text/plain'
    ] );
    printf ( "RequestId:%s\n", $resp ['RequestId'] );
    printf ( "Bucket:%s\n", $resp ['Bucket'] );
    printf ( "Key:%s\n", $resp ['Key'] );
    printf ( "UploadId:%s\n", $resp ['UploadId'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.10 PUT Part

API Description

After a multipart upload is initialized, you can use this API to upload a part to a specified bucket by using the multipart upload ID. Except for the part lastly being uploaded whose size ranging from 0 to 5 GB, sizes of the other parts range from 100 KB to 5 GB. The upload part ID ranges from 1 to 10000.

Method Definition

1. `ObsClient->uploadPart(array $parameter)`
2. `ObsClient->uploadPartAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
PartNumber	integer	Mandatory	Part number, which ranges from 1 to 10000
UploadId	string	Mandatory	Multipart upload ID
ContentMD5	string	Optional	Base64-encoded MD5 value of the part to be uploaded. It is provided for the OBS server to verify data integrity.
Body	string or resource or GuzzleHttp \Psr7\StreamInterface	Optional	Part content to be uploaded
SourceFile	string	Optional	Path to the source file of the part
Offset	integer	Optional	Start offset (in bytes) of a part in the source file. The default value is 0 .
PartSize	integer	Optional	Size (in bytes) of a part in the source file. The default value is the file size minus Offset . Except for the part lastly being uploaded whose size ranging from 0 to 5 GB, sizes of the other parts range from 100 KB to 5 GB.
SseC	string	Optional	Algorithm used in SSE-C encryption. The value can be: <ul style="list-style-type: none">• AES256
SseCKey	string	Optional	Key used in SSE-C encryption. It is calculated by using AES-256.

 NOTE

- **Body** and **SourceFile** cannot be used together.
- If both **Body** and **SourceFile** are null, the size of the object to be uploaded is 0 bytes.
- **Offset**, **PartSize**, and **SourceFile** are used together to specify a part of the source file to be uploaded.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
ETag	string	ETag of the uploaded part
SseKms	string	Algorithm used in SSE-KMS encryption
SseKmsKey	string	Key used in SSE-KMS encryption
SseC	string	Algorithm used in SSE-C encryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C encryption

Sample Code

```
try {
    $resp = $obsClient->uploadPart( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'UploadId' => 'uploadid',
        'PartNumber' => 1,
        'Body' => 'Hello OBS'
    ] );
    printf( "RequestId:%s\n", $resp ['RequestId'] );
    printf( "ETag:%s\n", $resp ['ETag'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.11 PUT Part - Copy

API Description

After a multipart upload is initialized, you can use this API to copy a part to a specified bucket by using the multipart upload ID.

Method Definition

1. ObsClient->copyPart(array \$parameter)
2. ObsClient->copyPartAsync(array \$parameter, callable \$callback)

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
PartNumber	integer	Mandatory	Part number, which ranges from 1 to 10000
UploadId	string	Mandatory	Multipart upload ID
CopySource	string	Mandatory	Parameter used to specify the source bucket, source object, and source object version ID which can be null. It is in the format of <i>SourceBucketName/SourceObjectName?versionId=SourceObjectVersionId</i> .
CopySourceRange	string	Optional	Copy range of the source object. The value range is [0, source object length-1] and is in the format of bytes=x-y. If the maximum length of CopySourceRange is larger than the length of the source object minus 1, the length of the source object minus 1 is used.
SseC	string	Optional	Algorithm used to encrypt the target part in SSE-C mode. The value can be: <ul style="list-style-type: none">• AES256
SseCKey	string	Optional	Key used to encrypt the target part in SSE-C mode. It is calculated by using AES-256.
CopySourceSseC	string	Optional	Algorithm used to decrypt the source object in SSE-C mode. The value can be: <ul style="list-style-type: none">• AES256

Field	Type	Optional or Mandatory	Description
CopySourceSseCKey	string	Optional	Key used to decrypt the source object in SSE-C mode, which is calculated by using AES-256

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
ETag	string	ETag of the target part
LastModified	string	Time when the last modification was made to the target part
SseKms	string	Algorithm used in SSE-KMS encryption
SseKmsKey	string	Key used in SSE-KMS encryption
SseC	string	Algorithm used in SSE-C encryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C encryption

Sample Code

```
try {
    $resp = $obsClient->copyPart( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'UploadId' => 'uploadid',
        'PartNumber' => 1,
        'CopySource' => 'sourcebucketname/sourceobjectkey',
        'CopySourceRange' => 'bytes=0-10'
    ] );
    printf ( "RequestId:%s\n", $resp ['RequestId'] );
    printf ( "ETag:%s\n", $resp ['ETag'] );
    printf ( "LastModified:%s\n", $resp ['LastModified'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.12 List Parts

API Description

You can use this API to list the uploaded parts in a specified bucket by using the multipart upload ID.

Method Definition

1. `ObsClient->listParts(array $parameter)`
2. `ObsClient->listPartsAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
UploadId	string	Mandatory	Multipart upload ID
MaxParts	integer	Optional	Maximum number of uploaded parts that can be listed per page
PartNumberMarker	integer	Optional	Part number after which listing uploaded parts begins. Only parts whose part numbers are larger than this value will be listed.

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
Bucket	string	Bucket name
Key	string	Object name
UploadId	string	Multipart upload ID

Field	Type	Description	
PartNumberMarker	string	Part number after which the listing uploaded parts begins, which is consistent with that set in the request	
NextPartNumberMarker	string	Part number to start with upon the next request for listing uploaded parts	
MaxParts	string	Maximum number of listed parts, which is consistent with that set in the request	
IsTruncated	boolean	Whether all uploaded parts are returned. If the field value is true , not all uploaded parts are returned. If the field value is false , all uploaded parts are returned.	
Parts	indexed array	List of uploaded parts	
	PartNumber	integer	Part number
	LastModified	string	Time when the part was last modified
	ETag	string	Part ETag
	Size	integer	Part size
Initiator	associative array	Initiator of the multipart upload	
	ID	string	ID of the domain to which the initiator belongs
	DisplayName	string	Initiator name
Owner	associative array	Owner of the multipart upload, which is consistent with Initiator	
	ID	string	ID of the domain to which the initiator belongs
	DisplayName	string	Initiator name
StorageClass	string	Storage class of the object to be uploaded	

Sample Code

```
try {
    $resp = $obsClient->listParts( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'UploadId' => 'uploadid',
        'MaxParts' => 10
    ] );
    printf( "RequestId:%s\n", $resp ['RequestId'] );
}
```

```
printf ( "Initiator[ID]:%s\n", $resp ['Initiator']['ID'] );
printf ( "Initiator[DisplayName]:%s\n", $resp ['Initiator']['DisplayName'] );
foreach ( $resp ['Parts'] as $index => $part){
    printf("Parts[%d]\n", $index + 1);
    printf ( "PartNumber:%s\n", $part ['PartNumber'] );
    printf ( "LastModified:%s\n", $part ['LastModified'] );
    printf ( "ETag:%s\n", $part ['ETag'] );
    printf ( "Size:%s\n", $part ['Size'] );
}
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode ( ) );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage ( ) );
}
```

5.13 Complete Multipart Upload

API Description

You can use this API to combine the uploaded parts in a specified bucket by using the multipart upload ID.

Method Definition

1. `ObsClient->completeMultipartUpload(array $parameter)`
2. `ObsClient->completeMultipartUploadAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description	
Bucket	string	Mandatory	Bucket name	
Key	string	Mandatory	Object name	
UploadId	string	Mandatory	Multipart upload ID	
Parts	indexed array	Mandatory	List of parts to be combined	
	PartNumber	integer	Mandatory	Part number
	ETag	string	Mandatory	Part ETag

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server
ETag	string	ETag calculated based on the ETags of all combined parts
Bucket	string	Bucket in which parts are combined
Key	string	Object name obtained after part combination
Location	string	URL of the object generated after part combination
VersionId	string	Version ID of the object obtained after part combination
SseKms	string	Algorithm used in SSE-KMS encryption
SseKmsKey	string	Master key used in SSE-KMS encryption
SseC	string	Algorithm used in SSE-C encryption
SseCKeyMd5	string	MD5 value of the key used in SSE-C encryption

Sample Code

```
try {
    $resp = $obsClient->completeMultipartUpload( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'UploadId' => 'uploadid',
        'Parts' => [
            ['PartNumber' => 1, 'ETag' => 'etag1'],
            ['PartNumber' => 2, 'ETag' => 'etag2']
        ]
    ] );
    printf ( "RequestId:%s\n", $resp ['RequestId'] );
    printf ( "Bucket:%s\n", $resp ['Bucket'] );
    printf ( "Key:%s\n", $resp ['Key'] );
    printf ( "ETag:%s\n", $resp ['ETag'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.14 DELETE Multipart upload

API Description

You can use this API to abort a multipart upload in a specified bucket by using the multipart upload ID.

Method Definition

1. `ObsClient->abortMultipartUpload(array $parameter)`
2. `ObsClient->abortMultipartUploadAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
UploadId	string	Mandatory	Multipart upload ID

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	String	Request ID returned by the OBS server

Sample Code

```
try {
    $resp = $obsClient->abortMultipartUpload( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'UploadId' => 'uploadid'
    ] );
    printf ( "RequestId:%s\n", $resp ['RequestId'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

5.15 POST Object restore

API Description

You can use this API to restore an object in the OBS Archive storage class in a specified bucket.

Method Definition

1. `ObsClient->restoreObject(array $parameter)`
2. `ObsClient->restoreObjectAsync(array $parameter, callable $callback)`

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Mandatory	Bucket name
Key	string	Mandatory	Object name
VersionId	string	Optional	Version ID of the to-be-restored object in the OBS Archive storage class
Days	integer	Mandatory	Retention period of the restored object, in days. The value ranges from 1 to 30.
Tier	string	Optional	Restore option

Returned Result

Field	Type	Description
HttpStatusCode	integer	HTTP status code
Reason	string	Reason description
RequestId	string	Request ID returned by the OBS server

Sample Code

```
try {
    $resp = $obsClient->restoreObject( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
```

```
        'Days' => 1,  
        'Tier' => ObsClient::RestoreTierExpedited  
    ] );  
    printf ( "RequestId:%s\n", $resp ['RequestId'] );  
} catch ( Obs\Common\ObsException $obsException ) {  
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );  
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );  
}
```


6 Other APIs

6.1 Creating a Signed URL

API Description

You can use this API to generate a URL whose **Query** parameters are carried with authentication information, by specifying the AK and SK, HTTP method, and request parameters. You can use a signed URL to perform specific operations on OBS.

Method Definition

```
ObsClient->createSignedUrl(array $parameter)
```

Request Parameter

Field	Type	Optional or Mandatory	Description
Method	string	Mandatory	HTTP method. Possible values are: <ul style="list-style-type: none">• GET• POST• PUT• DELETE• HEAD
Bucket	string	Optional	Bucket name
Key	string	Optional	Object name

Field	Type	Optional or Mandatory	Description
SpecialParam	string	Optional	Special operator, which indicates the sub-resource to be operated. Possible values are: <ul style="list-style-type: none">• versions• uploads• location• storageinfo• quota• storagePolicy• acl• logging• policy• lifecycle• website• versioning• cors• notification• tagging• delete• restore
Expires	integer	Optional	Expiration time of the signed URL, in seconds. The default value is 300 .
Headers	associative array	Optional	Headers in the request
QueryParams	associative array	Optional	Query parameters in the request

Returned Result

Field	Type	Description
SignedUrl	string	Signed URL
ActualSignedRequestHeaders	associative array	Actual headers in the request initiated by using the signed URL

Sample Code

```
try {
    // Generate a signed URL for creating a bucket.
    $resp = $obsClient->createSignedUrl( [
        'Method' => 'PUT',
        'Bucket' => 'bucketname',
        'Expires' => 3600,
    ] );
    printf ( "SignedUrl:%s\n", $resp ['SignedUrl'] );
    printf ( "ActualSignedRequestHeaders:%s\n", print_r($resp ['ActualSignedRequestHeaders'], true) );

    // Generate a signed URL for uploading an object.
    $resp = $obsClient->createSignedUrl( [
        'Method' => 'PUT',
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'Expires' => 3600,
        'Headers' => ['content-type' => 'text/plain']
    ] );
    printf ( "SignedUrl:%s\n", $resp ['SignedUrl'] );
    printf ( "ActualSignedRequestHeaders:%s\n", print_r($resp ['ActualSignedRequestHeaders'], true) );

    // Generate a signed URL for setting an object ACL.
    $resp = $obsClient->createSignedUrl( [
        'Method' => 'PUT',
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'Expires' => 3600,
        'SpecialParam' => 'acl',
        'Headers' => ['x-obs-acl' => 'public-read']
    ] );
    printf ( "SignedUrl:%s\n", $resp ['SignedUrl'] );
    printf ( "ActualSignedRequestHeaders:%s\n", print_r($resp ['ActualSignedRequestHeaders'], true) );

    // Generate a signed URL for downloading an object.
    $resp = $obsClient->createSignedUrl( [
        'Method' => 'GET',
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'Expires' => 3600
    ] );
    printf ( "SignedUrl:%s\n", $resp ['SignedUrl'] );
    printf ( "ActualSignedRequestHeaders:%s\n", print_r($resp ['ActualSignedRequestHeaders'], true) );

    // Generate a signed URL for deleting an object.
    $resp = $obsClient->createSignedUrl( [
        'Method' => 'DELETE',
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'Expires' => 3600
    ] );
    printf ( "SignedUrl:%s\n", $resp ['SignedUrl'] );
    printf ( "ActualSignedRequestHeaders:%s\n", print_r($resp ['ActualSignedRequestHeaders'], true) );

    // Generate a signed URL for deleting a bucket.
    $resp = $obsClient->createSignedUrl( [
        'Method' => 'DELETE',
        'Bucket' => 'bucketname',
        'Expires' => 3600
    ] );
    printf ( "SignedUrl:%s\n", $resp ['SignedUrl'] );
    printf ( "ActualSignedRequestHeaders:%s\n", print_r($resp ['ActualSignedRequestHeaders'], true) );
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

6.2 Generating Browser-Based Upload Parameters with Authentication Information

API Description

You can use this API to generate parameters for authentication. The parameters can be used to upload data through POST operations based on a browser.

NOTE

There are two request parameters generated:

- **Policy**, which corresponds to the **policy** field in the form
- **Signature**: which corresponds to the **signature** field in the form

Method Definition

```
ObsClient->createPostSignature(array $parameter)
```

Request Parameter

Field	Type	Optional or Mandatory	Description
Bucket	string	Optional	Bucket name
Key	string	Optional	Object name, which corresponds to the key field in the form
Expires	integer	Optional	Validity period of the browser-based upload authentication, in seconds. The default value is 300 .
FormParams	associative array	Optional	Other parameters of the browser-based upload except for key , policy , and signature . Possible values are: <ul style="list-style-type: none">• acl• cache-control• content-type• content-disposition• content-encoding• expires

Returned Result

Field	Type	Description
OriginPolicy	String	Value of Policy that is not encoded by base64. This parameter can only be used for verification.
Policy	String	policy in the form
Signature	String	signature in the form

Sample Code

```
try {
    $resp = $obsClient->createPostSignature( [
        'Bucket' => 'bucketname',
        'Key' => 'objectkey',
        'Expires' => 3600,
        'FormParams' => [
            'acl' => 'public-read',
            'content-type' => 'text/plain',
        ]
    ] );
    printf ( "Policy:%s\n", $resp ['Policy'] );
    printf ( "Signature:%s\n", $resp ['Signature'] );
} catch ( Obs\Common\ObsException $obsException ) {
    printf ( "ExceptionCode:%s\n", $obsException->getExceptionCode () );
    printf ( "ExceptionMessage:%s\n", $obsException->getExceptionMessage () );
}
```

A Change History

Release Date	What's New
2023-03-14	This is the first official release.