Alibaba Cloud
Object Storage Service

Release Notes

MORE THAN JUST CLOUD | ⊂−⊐ Alibaba Cloud

Legal disclaimer

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

1. You shall download and obtain this document from the Alibaba Cloud website or other Alibaba Cloud-authorized channels, and use this document for your own legal business activities only. The content of this document is considered confidential information of Alibaba Cloud. You shall strictly abide by the confidentiality obligations. No part of this document shall be disclosed or provided to any third party for use without the prior written consent of Alibaba Cloud.

2. No part of this document shall be excerpted, translated, reproduced, transmitted, or disseminated by any organization, company, or individual in any form or by any means without the prior written consent of Alibaba Cloud.

3. The content of this document may be changed due to product version upgrades , adjustments, or other reasons. Alibaba Cloud reserves the right to modify the content of this document without notice and the updated versions of this document will be occasionally released through Alibaba Cloud-authorized channels. You shall pay attention to the version changes of this document as they occur and download and obtain the most up-to-date version of this document from Alibaba Cloud-authorized channels.

4. This document serves only as a reference guide for your use of Alibaba Cloud products and services. Alibaba Cloud provides the document in the context that Alibaba Cloud products and services are provided on an "as is", "with all faults " and "as available" basis. Alibaba Cloud makes every effort to provide relevant operational guidance based on existing technologies. However, Alibaba Cloud hereby makes a clear statement that it in no way guarantees the accuracy, integrity , applicability, and reliability of the content of this document, either explicitly or implicitly. Alibaba Cloud shall not bear any liability for any errors or financial losses incurred by any organizations, companies, or individuals arising from their download, use, or trust in this document. Alibaba Cloud shall not, under any circumstances, bear responsibility for any indirect, consequential, exemplary, incidental, special, or punitive damages, including lost profits arising from the use

or trust in this document, even if Alibaba Cloud has been notified of the possibility of such a loss.

5. By law, all the content of the Alibaba Cloud website, including but not limited to works, products, images, archives, information, materials, website architecture, website graphic layout, and webpage design, are intellectual property of Alibaba Cloud and/or its affiliates. This intellectual property includes, but is not limited to, trademark rights, patent rights, copyrights, and trade secrets. No part of the Alibaba Cloud website, product programs, or content shall be used, modified , reproduced, publicly transmitted, changed, disseminated, distributed, or published without the prior written consent of Alibaba Cloud and/or its affiliates . The names owned by Alibaba Cloud shall not be used, published, or reproduced for marketing, advertising, promotion, or other purposes without the prior written consent of Alibaba Cloud. The names owned by Alibaba Cloud include, but are not limited to, "Alibaba Cloud", "Aliyun", "HiChina", and other brands of Alibaba Cloud and/or its affiliates, which appear separately or in combination, as well as the auxiliary signs and patterns of the preceding brands, or anything similar to the company names, trade names, trademarks, product or service names, domain names, patterns, logos, marks, signs, or special descriptions that third parties identify as Alibaba Cloud and/or its affiliates).

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

Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus , page names, and other UI elements.	Click **OK**.
`Courier font`	It is used for commands.	Run the `cd / d  C :/ windows` command to enter the Windows system folder.
Italics	It is used for parameters and variables.	`bae  log  list  -- instanceid` *`Instance_ID`*
[] or [a|b]	It indicates that it is a optional value, and only one item can be selected.	`ipconfig` *`[-all|-t]`*

Style	Description	Example
{} or {a|b}	It indicates that it is a required value, and only one item can be selected.	`swich` *{stand | slave}*

Contents

1 Release notes

This topic records the released functions of OSS and lists the documentation related to the functions.

Function	Description	Release date	Applied region	Documentation
ossutil 1.6.0	Ossutil allows you to manage OSS data easily by using command lines and provides simple and easy-to-use commands for bucket and object management . Ossutil supports the following operating systems: Windows, Linux, and Mac. In ossutil 1.6.0, the following functions are added: create folders , append upload, Cross-Origin Resource Sharing (CORS), manage logs , and set anti-leech.	2019-04-25	All regions	· *Quick start* · *Bucket-related commands* · *Object-related commands*

Function	Description	Release date	Applied region	Documentation
Bucket policy	Bucket policies are used for resource-based authorization and can be directly configured by the bucket owner on the graphical console for access authorization.	2019-01-21	All regions	*Use bucket policies to authorize other users to access OSS resources*

Function	Description	Release date	Applied region	Documentation
Set or modify the storage class of an object	When uploading an object, you can set the storage class of the object to Standard, IA, or Archive. The setting takes effect immediately after the object is uploaded. You can convert the storage class of an object among Standard, IA, and Archive by performing a CopyObject operation. The time period that is required for the conversion to take effect reduces from days to seconds.	2018-11-10	All regions	• *Overview* • *Convert between storage classes* • *CopyObject*

Function	Description	Release date	Applied region	Documentation
Terraform	The Terraform module for Alibaba Cloud OSS is released . By using Terraform , you can manage your infrastructure resources based on versions and perform OSS operations , such as creating a bucket or managing objects, by running code.	2018-11-07	All regions	· *Introduction* · *Use Terraform to manage OSS*
Server-side encryption based on CMKs	You can encrypt objects at the server side by using KMS.	2018-10-20	All regions	*Protect data by performing server-side encryption*

Function	Description	Release date	Applied region	Documentation
OSS Select	The OSS Select function allows you to use SQL statements to select required data from an object, reducing the data that needs to be transferred and improving the efficiency that you obtains data from OSS.	2018-09-28	All regions	*SelectObject*
Compliant retention strategy	OSS supports compliant retention strategies for buckets, which protect yoor data from being deleted or modified.	2018-09-28	China South 1 (Shenzhen)	· *Set a retention policy* · *Set a compliant retention strategy*

Function	Description	Release date	Applied region	Documentation
Redundant storage across zones	Data in OSS is separately stored in three zones within the same region. Users can access the data even if one of the three zones is unavailable.	2018-09-28	China South 1 (Shenzhen) and China North 2 (Beijing)	*Redundant storage across zones*
Pay-by-requester mode	After the pay-by-requester mode is enabled for a bucket in OSS, the requester instead of the bucket owner pays the cost of the request and traffic. The bucket owner always pays the cost of storing data.	2018-09-27	China South 1 (Shenzhen)	*Enable the pay-by-requester mode*

Function	Description	Release date	Applied region	Documentation
Use CMKs managed by KMS to decrypt data (SSE-KMS)	You can encrypt OSS data on the server side by using CMKs managed by KMS. You can specify the key for one CMK ID to achieve the BYOK function.	2018-08-14	All regions	*Server-side encryption*
OSS Python SDK supports client-side encryption	You can use the client-side encryption SDK to encrypt local data and upload the data to OSS . To use this function, you must manage the encryption process and the encryption key.	2018-06-05	All regions	*Client-side encryption*
The unit price for the Standard storage class is reduced	The unit price for the Standard storage class in Mainland China reduces to US$0.0173 /GB/Month, which is a 18. 9% drop.	2018-06-02	Regions in Mainland China	*OSS pricing page*

Function	Description	Release date	Applied region	Documentation
Combination of OSS and DataLakeAnalytics	You can query and analyze OSS data in the DataLakeAnalytics console in a serverless and interactive method.	2018-05-31	All regions	*Quickly analyze data in OSS*
OSS Browser.js and Node.js SDKs support resumable upload	In resumable uploads, objects to be uploaded are divided into parts. All parts are combined into the complete object after they are uploaded.	2018-03-07	All regions	· Node.js SDK: *Resumable upload* · Browser.js SDK: *Resumable upload*
Certificate hosting	You can host the certificate for your CNAME on OSS and access the CNAME through the HTTPS protocol.	2018-03-05	All regions	· *Attach a custom domain name* · *Certificate hosting*
OSS iOS SDK can be called by SWIFT	Mobile application developers using SWIFT can call OSS iOS SDK.	2018-01-18	All regions	*OSSSwiftDemo*

Function	Description	Release date	Applied region	Documentation
OSS iOS SDK 2.8 and Android SDK 2.5 support CRC64 data verification	After the CRC64 verification is enabled, the CRC64 value of the uploaded or downloaded data is compared with the CRC64 value of the original data to ensure the data integrity.	2017-12-21	All regions	iOS SDK: *Data security*
Data migration tool ossimport	Ossimport is a tool used to migrate data from other cloud storage to OSS buckets.	2017-10-23	All regions	· *Standalone deployment* · *Distributed deployment*

Function	Description	Release date	Applied region	Documentation
Cross-region replication	Cross-region replication is used to automatically and asynchronously copy objects across buckets in different regions. Any changes (creation, replacement, and deletion) to objects in the source bucket will be synchronized to the target bucket.	2017-09-15	Regions in Mainland China, US East 1, and US West 1	*Configure cross-region replication*
The unit price for the Archive storage class is reduced	The unit price for the Archive storage class reduces by 45%. The minimum storage period is modified to 60 days.	2017-07-21	All regions	· *Billing items* · *RestoreObject*

Function	Description	Release date	Applied region	Documentation
The new version of the OSS console is released	· Optimized the layout and navigation system. · Information in the overview page is aggregated. · The configuration and management functions of buckets and objects are upgraded.	2017-07-01	All regions	*Log on to OSS console*
The maximum number of buckets that an Alibaba Cloud account can create increases to 30	An Alibaba Cloud account can create a maximum of 30 buckets in a region.	2017-04-24	All regions	· *Limits* · *PutBucket*
OSS iOS SDK 2.6.0 is released	OSS iOS SDK 2.6.0 supports the latest HTTPS access standards for App Store	2016-12-16	All regions	*Installation*

Function	Description	Release date	Applied region	Documentation
Manage parts	You can clear unnecessary parts in a timely manner by setting lifecycle rules.	2016-03-10	All regions	*Manage parts*
OSS Media -C SDK is released	OSS Media -C SDK is released, which can be used to encapsulate data on camera equipment and upload the data to OSS.	2016-03-06	All regions	*Preface*
Set back-to-origin rules	After you set back-to-origin rules, OSS retrieves requested data from the origin in multiple ways to meet your requirements such as hot data migration and specific request redirection.	2016-01-14	All regions	*Manage back-to-origin configurations*
OSS Ruby SDK is released	OSS Ruby SDK is released.	2015-11-26	All regions	*Installation*

Function	Description	Release date	Applied region	Documentation
Image processing	The image processing function is enabled for buckets by default.	2015-11-10	All regions	*Image processing*
Append upload	By using append upload, you can use the AppendObject API of OSS to directly append content to the appendable objects that are uploaded.	2015-07-18	All regions	*Append upload*
Set data callback for application servers in upload tasks	OSS allows you to set up OSS-based direct data transfer for mobile applications and set data callback in upload tasks.	2015-07-08	All regions	*Set up data callback for mobile apps*

Function	Description	Release date	Applied region	Documentation
OSS supports RAM	OSS supports Resource Access Management (RAM). You can authorize a RAM user by using your Alibaba Cloud account or generate a temporary token for other users to access your OSS resources.	2015-04-26	All regions	*What is RAM and STS*
Lifecycle rules	You can configure lifecycle rules for OSS buckets or objects by using the `PutBucketLifecycle` interface to automatically delete expired objects and parts or change the storage class of expired objects to IA or Archive, saving storage costs.	2014-10-20	All regions	*Manage object lifecycle*

Function	Description	Release date	Applied region	Documentation
Cross-Origin Resource Sharing (CORS)	CORS is a standard cross-origin solution provided by HTML5. OSS supports CORS for cross-region access.	2014-03-15	All regions	*Cross-origin resource sharing (CORS)*
Form upload	By using form upload, you can use the PostObject API of OSS to upload objects with a maximum size of 5 GB.	2014-02-12	All regions	*Form upload*

Function	Description	Release date	Applied region	Documentation
Server-side encryption	OSS supports server-side encryption for uploaded data. This means that when user data is uploaded, OSS encrypts the data and permanently stores the data. Then, when the data is downloaded by a user, OSS automatically decrypts the data, returns the original data to the user, and declares in the header of the returned HTTP request that the data has been encrypted on the server.	2012-11-4	All regions	*Server-side encryption*

Function	Description	Release date	Applied region	Documentation
CNAME	To access an uploaded object by using a custom domain name , you must attach the custom domain name to the bucket where the object is stored and add a CNAME record that directs to the Internet domain name of the bucket.	2012-09-04	All regions	*Attach a custom domain name*

Function	Description	Release date	Applied region	Documentation
Access logging	A large number of access logs are generated when an object is accessed. After the access logging function is enabled for a bucket, OSS automatically generates an object in the specified bucket (target bucket) to store the access logs on an hourly basis.	2012-08-09	All regions	*Access logging*
Static website hosting	You can call the PutBucketWebsite API to set your bucket to the static website hosting mode and access the static website through the URL of the bucket.	2012-06-20	All regions	*Configure static website hosting*

Function	Description	Release date	Applied region	Documentation
Multipart upload	By using multipart upload and resumable upload provided by Alibaba Cloud OSS, you can split an object into multiple data blocks (parts) and upload them separately. After uploading all the object parts, you can call an API to combine them into an object.	2012-03-29	All regions	*Multipart upload and resumable upload*
Copy objects	You can copy objects from a bucket to another bucket without modifying the object content.	2011-12-16	All regions	*Copy objects*

Function	Description	Release date	Applied region	Documentation
Anti-leech	By using the anti-leech function, you can set referers by calling the PutBucketReferer API to prevent your OSS data from being used by unauthorized users.	2011-12-16	All regions	*Anti-leech settings*
HTTP header	HTTP header is used to define the policy of HTTP requests, such as cache policy or download policy.	2011-12-16	All regions	*Set an HTTP header*
OSS is released	Alibaba Cloud OSS is released for commercial use.	2011-10-22	All regions	*What is OSS?*