



Object Storage Service

SDK References

Issue 02

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1 SDK Overview

Object Storage Service (OBS) software development kits (SDKs) encapsulate RESTful application programming interfaces (APIs) provided by OBS to lessen developers' workload. Developers can directly use API functions provided by OBS SDKs to obtain the OBS service capabilities.

Obtain the development packages from [HUAWEI CLOUD OBS SDKs](#).

In addition, the developer guides and API references are provided for SDKs of different languages. Developer guides describe the SDK installation, development operations, parameters, examples, and common problem handling. API references provide parameters and definitions of APIs. OBS provides SDKs with mainstream languages listed in the following table.

Language	SDK Developer Guide	API Reference
Java	Java SDK Developer Guide	-
Python	Python SDK Developer Guide	-
C	C SDK Developer Guide	-
Go	Go SDK Developer Guide	-
BrowserJS	BrowserJS SDK Developer Guide	BrowserJS SDK API Reference
.NET	.NET SDK Developer Guide	.NET SDK API Reference
Android	Android SDK Developer Guide	Android SDK API Reference
iOS	iOS SDK Developer Guide	iOS SDK API Reference
PHP	PHP SDK Developer Guide	PHP SDK API Reference

Language	SDK Developer Guide	API Reference
Node.js	Node.js SDK Developer Guide	Node.js SDK API Reference

2 SDK Function Matrices

Table 2-1 describes the OBS APIs supported by Java, Python, C, .NET, Node.js, and Android SDKs.

Table 2-2 describes the OBS APIs supported by iOS, PHP, Go, and BrowserJS SDKs.

Table 2-1 Function matrix 1 of OBS SDKs

Type	API	Function	Java	Python	C	.NET	Node.js	Android
Bucket-related APIs	Listing Buckets	listBuckets	Supported	Supported	Supported	Supported	Supported	Supported
	Creating a Bucket	createBucket	Supported	Supported	Supported	Supported	Supported	Supported
	Listing Objects in a Bucket	listObjects	Supported	Supported	Supported	Supported	Supported	Supported
	Listing Object Versions in a Bucket	listVersions	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket Metadata	getBucketMetadata	Supported	Supported	Not supported	Supported	Supported	Supported
	Obtaining Bucket Location	getBucketLocation	Supported	Supported	Not supported	Supported	Supported	Supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Deleting Buckets	deleteBucket	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring a Bucket Policy	setBucketPolicy	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket Policy Information	getBucketPolicy	Supported	Supported	Supported	Supported	Supported	Supported
	Deleting a Bucket Policy	deleteBucketPolicy	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring a Bucket ACL	setBucketAcl	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket ACL Information	getBucketAcl	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Logging for a Bucket	setBucketLogging, setBucketLoggingConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket Logging Configuration	getBucketLogging, getBucketLoggingConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Bucket Lifecycle Rules	setBucketLifecycle, setBucketLifecycleConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket Lifecycle Configuration	getBucketLifecycle, getBucketLifecycleConfiguration	Supported	Supported	Supported	Supported	Supported	Supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Deleting Lifecycle Rules	deleteBucketLifecycle, deleteBucketLifecycleConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Versioning for a Bucket	setBucketVersioning, setBucketVersioningConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket Versioning Status	getBucketVersioning, getBucketVersioningConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Storage Class for a Bucket	setBucketStoragePolicy	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket Storage Class Information	getBucketStoragePolicy	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Cross-Region Replication for a Bucket	setBucketReplication	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Obtaining the Cross-Region Replication Configuration of a Bucket	getBucketReplication	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Deleting the Cross-Region Replication Configuration of a Bucket	deleteBucketReplication	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Configuring Tags for a Bucket	setBucketTagging	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Bucket Tags	getBucketTagging	Supported	Supported	Supported	Supported	Supported	Supported
	Deleting Tags	deleteBucketTagging	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Bucket Storage Quota	setBucketQuota	Supported	Supported	Supported	Supported	Supported	Supported
	Querying Bucket Storage Quota	getBucketQuota	Supported	Supported	Supported	Supported	Supported	Supported
	Querying Information About Used Space in a Bucket	getBucketStorageInfo	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Static Website Hosting for a Bucket	setBucketWebsite, setBucketWebsiteConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining the Static Website Hosting Configuration of a Bucket	getBucketWebsite, getBucketWebsiteConfiguration	Supported	Supported	Supported	Supported	Supported	Supported
	Deleting the Static Website Hosting Configuration of a Bucket	deleteBucketWebsite, deleteBucketWebsiteConfiguration	Supported	Supported	Supported	Supported	Supported	Supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Configuring Bucket CORS	setBucketCors	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining the CORS Configuration of a Bucket	getBucketCors	Supported	Supported	Supported	Supported	Supported	Supported
	Deleting the CORS Configuration of a Bucket	deleteBucketCors	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring Bucket Inventories	setBucketInventory	Supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Obtaining Bucket Inventories	getBucketInventory	Supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Listing Bucket Inventories	listBucketInventory	Supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Deleting Bucket Inventories	deleteBucketInventory	Supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Configuring Direct Reading for Archive Objects in a Bucket	setDirectcolDaccess	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Obtaining the Direct Reading Policy of Archive Objects in a Bucket	getDirectcolDaccess	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Deleting the Direct Reading Policy of Archive Objects in a Bucket	deleteDirectcoldaccess	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Configuring Bucket Encryption	setBucketEncryption	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Obtaining Bucket Encryption Configuration	getBucketEncryption	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Deleting the Encryption Configuration of a Bucket	deleteBucketEncryption	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Configuring a Custom Domain Name for a Bucket	setBucketCustomdomain	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Obtaining the Custom Domain Name of a Bucket	getBucketCustomdomain	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Deleting the Custom Domain Name of a Bucket	deleteBucketCustomdomain	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
Object-related APIs	Uploading Objects - PUT	putObject	Supported	Supported	Supported	Supported	Supported	Supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Copying Objects	copyObject	Supported	Supported	Supported	Supported	Supported	Supported
	Downloading Objects	getObject	Supported	Supported	Supported	Supported	Supported	Supported
	Querying Object Metadata	getObjectMetadata	Supported	Supported	Supported	Supported	Supported	Supported
	Deleting an Object	deleteObject	Supported	Supported	Supported	Supported	Supported	Supported
	Deleting Objects	deleteObjects	Supported	Supported	Supported	Supported	Supported	Supported
	Restoring Archive Objects	restoreObject	Supported	Supported	Supported	Supported	Supported	Supported
	Appending an Object	appendObject	Supported	Supported	Supported	Supported	Supported	Supported
	Configuring an Object ACL	setObjectAcl	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining Object ACL Configuration	getObjectAcl	Supported	Supported	Supported	Supported	Supported	Supported
	Modifying Object Metadata	setObjectMetadata	Supported	Supported	Not supported	Not supported	Not supported	Supported
	Listing Initiated Multipart Uploads in a Bucket	listMultipartUploads	Supported	Supported	Supported	Supported	Supported	Supported
	Initiating a Multipart Upload	initiateMultipartUpload	Supported	Supported	Supported	Supported	Supported	Supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Multipart Upload	uploadPart	Supported	Supported	Supported	Supported	Supported	Supported
	Uploading a Part of an Object - Copy	copyPart	Supported	Supported	Supported	Supported	Supported	Supported
	Listing Uploaded Parts of an Object	listParts	Supported	Supported	Supported	Supported	Supported	Supported
	Completing a Multipart Upload	completeMultipartUpload	Supported	Supported	Supported	Supported	Supported	Supported
	Canceling a Multipart Upload	abortMultipartUpload	Supported	Supported	Supported	Supported	Supported	Supported
POSIX features	Creating a POSIX-compatible Bucket	newBucket	Supported	Not supported	Supported	Not supported	Not supported	Supported
	Listing POSIX-compatible Buckets	listBuckets	Supported	Not supported	Not supported	Not supported	Not supported	Supported
	Modifying an Object	modifyObject	Supported	Not supported	Supported	Not supported	Not supported	Supported
	Renaming an Object	renameObject	Supported	Not supported	Supported	Not supported	Not supported	Supported
	Truncating a POSIX File	truncateObject	Supported	Not supported	Supported	Not supported	Not supported	Supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
Temporary authentication	Calculating the Temporarily Authorized Signature URL	createSignedUrl (Python, Go), createTemporarySignature (Java)	Supported	Supported	Supported	Supported	Supported	Supported
	Calculating Authentication Parameters of a POST Form	createPostSignature, createBrowserBasedSignature	Supported	Supported	Not supported	Not supported	Supported	Supported
	Supporting Authentication with a Security Token	N/A	Supported	Supported	Supported	Supported	Supported	Supported
New features	Configuring Object Lifecycle Rules in an Upload	putObject, initiateMultiPartUpload	Supported	Supported	Supported	Supported	Supported	Supported
	Supporting Multi-Project Management (epid)	createBucket, getBucketMetadata	Supported	Supported	Not supported	Not supported	Not supported	Supported
	Configuring Image Transcoding Parameters in a Download	getObject	Supported	Supported	Supported	Supported	Supported	Supported
	Obtaining the Bucket Region Information in a List Operation	listBuckets	Supported	Supported	Supported	Supported	Supported	Supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
Value-added functions	Uploading Objects - Streaming	putObject	Supported	Supported	Supported	Supported	Supported	Supported
	Download Objects - Streaming	getObject	Supported	Supported	Supported	Supported	Supported	Supported
	Uploading Parts - Streaming	uploadPart	Supported	Supported	Supported	Supported	Supported	Supported
	Uploading a File Using a Multipart Upload (Resumable Transfer Supported)	uploadFile	Supported	Supported	Supported	Supported	Supported	Supported
	Downloading a File Using a Multipart Download (Resumable Transfer Supported)	downloadFile	Supported	Supported	Supported	Supported	Supported	Supported
	Automatically Configuring MIME Based on Object Name Suffix	putObject, initiateMultipartUpload	Supported	Supported	Not supported	Supported	Supported	Supported
	Configuring an HTTP Proxy	N/A	Supported	Supported	Supported	Supported	Not supported	Supported
	Asynchronous API	N/A	Not supported	Not supported	Not supported	Supported	Supported	Not supported
	Restoring Objects	N/A	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

Type	API	Function	Java	Python	C	.NET	Node.js	Android
	Downloading Objects	N/A	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Uploading Objects	N/A	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Copying Objects	N/A	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
	Viewing the Data Transmission Progress	putObject, uploadFile, uploadPart, getObject, downloadFile	Supported	Supported	Not supported	Supported	Not supported	Supported
	Configuring a Persistent or Temporary Connection	N/A	Supported	Supported	Not supported	Supported	Supported	Supported
	Configuring Logs	N/A	Supported	Supported	Supported	Supported	Supported	Supported

Table 2-2 Function matrix 2 of OBS SDKs

Type	API	Function	iOS	PHP	Go	Browser JS
Bucket-related APIs	Listing Buckets	listBuckets	Supported	Supported	Supported	Not supported
	Creating a Bucket	createBucket	Supported	Supported	Supported	Not supported
	Listing Objects in a Bucket	listObjects	Supported	Supported	Supported	Supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Listing Object Versions in a Bucket	listVersions	Supported	Supported	Supported	Supported
	Obtaining Bucket Metadata	getBucketMetadata	Supported	Supported	Supported	Supported
	Obtaining Bucket Location	getBucketLocation	Supported	Supported	Supported	Supported
	Deleting Buckets	deleteBucket	Supported	Supported	Supported	Supported
	Configuring a Bucket Policy	setBucketPolicy	Supported	Supported	Supported	Supported
	Obtaining Bucket Policy Information	getBucketPolicy	Supported	Supported	Supported	Supported
	Deleting a Bucket Policy	deleteBucketPolicy	Supported	Supported	Supported	Supported
	Configuring a Bucket ACL	setBucketAcl	Supported	Supported	Supported	Supported
	Obtaining Bucket ACL Information	getBucketAcl	Supported	Supported	Supported	Supported
	Configuring Logging for a Bucket	setBucketLogging, setBucketLoggingConfiguration	Supported	Supported	Supported	Supported
	Obtaining Bucket Logging Configuration	getBucketLogging, getBucketLoggingConfiguration	Supported	Supported	Supported	Supported
	Configuring Bucket Lifecycle Rules	setBucketLifecycle, setBucketLifecycleConfiguration	Supported	Supported	Supported	Supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Obtaining Bucket Lifecycle Configuration	getBucketLifecycle, getBucketLifecycleConfiguration	Supported	Supported	Supported	Supported
	Deleting Lifecycle Rules	deleteBucketLifecycle, deleteBucketLifecycleConfiguration	Supported	Supported	Supported	Supported
	Configuring Versioning for a Bucket	setBucketVersioning, setBucketVersioningConfiguration	Supported	Supported	Supported	Supported
	Obtaining Bucket Versioning Status	getBucketVersioning, getBucketVersioningConfiguration	Supported	Supported	Supported	Supported
	Configuring Storage Class for a Bucket	setBucketStoragePolicy	Supported	Supported	Supported	Supported
	Obtaining Bucket Storage Class Information	getBucketStoragePolicy	Supported	Supported	Supported	Supported
	Configuring Cross-Region Replication for a Bucket	setBucketReplication	Not supported	Not supported	Not supported	Not supported
	Obtaining the Cross-Region Replication Configuration of a Bucket	getBucketReplication	Not supported	Not supported	Not supported	Not supported
	Deleting the Cross-Region Replication Configuration of a Bucket	deleteBucketReplication	Not supported	Not supported	Not supported	Not supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Configuring Tags for a Bucket	setBucketTagging	Supported	Supported	Supported	Supported
	Obtaining Bucket Tags	getBucketTagging	Supported	Supported	Supported	Supported
	Deleting Tags	deleteBucketTagging	Supported	Supported	Supported	Supported
	Configuring Bucket Storage Quota	setBucketQuota	Supported	Supported	Supported	Supported
	Querying Bucket Storage Quota	getBucketQuota	Supported	Supported	Supported	Supported
	Querying Information About Used Space in a Bucket	getBucketStorageInfo	Supported	Supported	Supported	Supported
	Configuring Static Website Hosting for a Bucket	setBucketWebsite, setBucketWebsiteConfiguration	Supported	Supported	Supported	Supported
	Obtaining the Static Website Hosting Configuration of a Bucket	getBucketWebsite, getBucketWebsiteConfiguration	Supported	Supported	Supported	Supported
	Deleting the Static Website Hosting Configuration of a Bucket	deleteBucketWebsite, deleteBucketWebsiteConfiguration	Supported	Supported	Supported	Supported
	Configuring Bucket CORS	setBucketCors	Supported	Supported	Supported	Supported
	Obtaining the CORS Configuration of a Bucket	getBucketCors	Supported	Supported	Supported	Supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Deleting the CORS Configuration of a Bucket	deleteBucketCors	Supported	Supported	Supported	Supported
	Configuring Bucket Inventories	setBucketInventory	Not supported	Not supported	Not supported	Not supported
	Obtaining Bucket Inventories	getBucketInventory	Not supported	Not supported	Not supported	Not supported
	Listing Bucket Inventories	listBucketInventory	Not supported	Not supported	Not supported	Not supported
	Deleting Bucket Inventories	deleteBucketInventory	Not supported	Not supported	Not supported	Not supported
	Configuring Direct Reading for Archive Objects in a Bucket	setDirectcoldaccess	Not supported	Not supported	Not supported	Not supported
	Obtaining the Direct Reading Policy of Archive Objects in a Bucket	getDirectcoldaccess	Not supported	Not supported	Not supported	Not supported
	Deleting the Direct Reading Policy of Archive Objects in a Bucket	deleteDirectcoldaccess	Not supported	Not supported	Not supported	Not supported
	Configuring Bucket Encryption	setBucketEncryption	Not supported	Not supported	Supported	Not supported
	Obtaining Bucket Encryption Configuration	getBucketEncryption	Not supported	Not supported	Supported	Not supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Deleting the Encryption Configuration of a Bucket	deleteBucketEncryption	Not supported	Not supported	Supported	Not supported
	Configuring a Custom Domain Name for a Bucket	setBucketCustomdomain	Not supported	Not supported	Supported	Not supported
	Obtaining the Custom Domain Name of a Bucket	getBucketCustomdomain	Not supported	Not supported	Supported	Not supported
	Deleting the Custom Domain Name of a Bucket	deleteBucketCustomdomain	Not supported	Not supported	Supported	Not supported
Object-related APIs	Uploading Objects - PUT	putObject	Supported	Supported	Supported	Supported
	Copying Objects	copyObject	Supported	Supported	Supported	Supported
	Downloading Objects	getObject	Supported	Supported	Supported	Supported
	Querying Object Metadata	getObjectMetadata	Supported	Supported	Supported	Supported
	Deleting an Object	deleteObject	Supported	Supported	Supported	Supported
	Deleting Objects	deleteObjects	Supported	Supported	Supported	Supported
	Restoring Archive Objects	restoreObject	Supported	Supported	Supported	Supported
	Appending an Object	appendObject	Supported	Not supported	Supported	Supported
	Configuring an Object ACL	setObjectAcl	Supported	Supported	Supported	Supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Obtaining Object ACL Configuration	getObjectAcl	Supported	Supported	Supported	Supported
	Modifying Object Metadata	setObjectMetadata	Supported	Supported	Supported	Supported
	Listing Initiated Multipart Uploads in a Bucket	listMultipartUploads	Supported	Supported	Supported	Supported
	Initiating a Multipart Upload	initiateMultipartUpload	Supported	Supported	Supported	Supported
	Multipart Upload	uploadPart	Supported	Supported	Supported	Supported
	Uploading a Part of an Object - Copy	copyPart	Supported	Supported	Supported	Supported
	Listing Uploaded Parts of an Object	listParts	Supported	Supported	Supported	Supported
	Completing a Multipart Upload	completeMultipartUpload	Supported	Supported	Supported	Supported
	Canceling a Multipart Upload	abortMultipartUpload	Supported	Supported	Supported	Supported
POSIX features	Creating a POSIX-compatible Bucket	newBucket	Not supported	Not supported	Not supported	Not supported
	Listing POSIX-compatible Buckets	listBuckets	Not supported	Not supported	Not supported	Not supported
	Modifying an Object	modifyObject	Not supported	Not supported	Supported	Not supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Renaming an Object	renameObject	Not supported	Not supported	Not supported	Not supported
	Truncating a POSIX File	truncateObject	Not supported	Not supported	Not supported	Not supported
Temporary authentication	Calculating the Temporarily Authorized Signature URL	createSignedUrl (Python, Go), createTemporarySignature (Java)	Supported	Supported	Supported	Supported
	Calculating Authentication Parameters of a POST Form	createPostSignature, createBrowserBasedSignature	Not supported	Supported	Not supported	Supported
	Supporting Authentication with a Security Token	N/A	Supported	Supported	Supported	Supported
New features	Configuring Object Lifecycle Rules in an Upload	putObject, initiateMultipartUpload	Not supported	Not supported	Not supported	Supported
	Supporting Multi-Project Management (epid)	createBucket, getBucketMetadata	Not supported	Not supported	Supported	Not supported
	Configuring Image Transcoding Parameters in a Download	getObject	Not supported	Supported	Supported	Supported
	Obtaining the Bucket Region Information in a List Operation	listBuckets	Supported	Supported	Supported	Supported

Type	API	Function	iOS	PHP	Go	Browser JS
Value-added functions	Uploading Objects - Streaming	putObject	Supported	Supported	Supported	Supported
	Download Objects - Streaming	getObject	Supported	Supported	Supported	Supported
	Uploading Parts - Streaming	uploadPart	Supported	Supported	Supported	Supported
	Uploading a File Using a Multipart Upload (Resumable Transfer Supported)	uploadFile	Supported	Not supported	Supported	Supported
	Downloading a File Using a Multipart Download (Resumable Transfer Supported)	downloadFile	Supported	Not supported	Supported	Not supported
	Automatically Configuring MIME Based on Object Name Suffix	putObject, initiateMultipartUpload	Not supported	Not supported	Supported	Supported
	Configuring an HTTP Proxy	N/A	Supported	Not supported	Supported	Not supported
	Asynchronous API	N/A	Supported	Supported	Not supported	Supported
	Restoring Objects	N/A	Not supported	Not supported	Not supported	Not supported
	Downloading Objects	N/A	Not supported	Not supported	Not supported	Not supported

Type	API	Function	iOS	PHP	Go	Browser JS
	Uploading Objects	N/A	Not supported	Not supported	Not supported	Not supported
	Copying Objects	N/A	Not supported	Not supported	Not supported	Not supported
	Viewing the Data Transmission Progress	putObject, uploadFile, uploadPart, getObject, downloadFile	Supported	Not supported	Not supported	Supported
	Configuring a Persistent or Temporary Connection	N/A	Not supported	Not supported	Not supported	Not supported
	Configuring Logs	N/A	Supported	Supported	Supported	Supported