

HCP & S3 SDK Functionality

HCP SDK is the exclusive SDK for HCP products. Access HCP by REST API. It can be used to access or manage the HCP system.
This document lists some common functions of SDK for access HCP, The feature list depends on Java (HCP SDK 0.5.x / AWS S3 1.11.356)

Scope	Operation	HCP Function	HCP SDK	S3 SDK	Description
<u>Object Operation</u>	<u>Object Put</u>	File type put	Support	Support	
		InputStream type put	Support	Support	
		String type put	Support	Unsupport	
		Bytes type put	Support	Unsupport	
		Put Progress Listener	Support	Support	
		Content integrity verification	Support	Support	
		Specify validation algorithm	Support	Unsupport	
		Compression transmission	Support	Unsupport	
		Associated metadata	Support	Support	
		Overlength InputStream	Support	Unsupport	
	<u>Object Retrieve</u>	Deleted version retrieve	Support	Unsupport	
		Specified version retrieve	Support	Support	
		Partial data retrieve from start of content	Support	Support	
		Partial data retrieve from end of content	Support	Unsupport	
		Compression transmission	Support	Unsupport	
		Request wait	Support	Unsupport	
		Force Etag generation	Support	Unsupport	
	<u>Object Deletion</u>	Specified version deletion	Support	Support	
		All versions deletion	Support	Unsupport	Purge delete
		Objects delete under retention	Support	Unsupport	Privileged delete
		Batch objects/keys deletion	In Progress	Support	
	<u>Object Copy</u>	Current version copy	Support	Support	
		Specified version copy	Support	Support	
		Range copy	Support	Support	
		Entire versions copy	Support	Unsupport	
		Metadata replication	Support	Support	
		Copy between bucket	Support	Support	
	<u>Version List</u>	Current object version list	Support	Support	
		Deleted object version list	Support	Unsupport	
	<u>Multi-part</u>	Multi-part upload	Support	Support	
		Part copy	Support	Support	
		Part list	Support	Support	
		Multi-part abort	Support	Support	
		Multi-part download	Support	Support	
	<u>Others</u>	Existence check	Support	Support	
		Version existence check	Support	Support	
		Summary retrieve	Support	Support	
		Path optimized	Support	Unsupport	
	<u>Directory List</u>	Specified directory list (current directory only)	Support	Support	
		Specify directory traversal (including subdirectories)	Support	Support	
		List deleted directory objects	Support	Unsupport	
	<u>Directory Delete</u>	Empty directory delete	Support	Support	
		Non-empty directory deletion	Support	Unsupport	
		Delete all versions	Support	Unsupport	Purge delete
		Objects delete under retention	Support	Unsupport	Privileged delete

Scope	Operation	HCP Function	HCP SDK	S3 SDK	Description	
<u>Directory Operation</u>	<u>Directory Copy</u>	Directory traversal copy	Support	Unsupport		
		Current directory copy	Support	Unsupport		
		Copy between bucket	Support	Unsupport		
		Metadata replication	Support	Unsupport		
		Copy listener	Support	Unsupport		
	<u>Others</u>	Empty directory creation	Support	Unsupport		
		Directory existence check	Support	Unsupport		
		Deleted directory existence check	Support	Unsupport		
		Directory upload	In Progress	Support		
		Directory download	In Progress	Support		
<u>Metadata</u>	<u>Metadata Put</u>	Independent metadata Put support	Support	Unsupport		
		File type put	Support	Unsupport		
		InputStream type put	Support	Unsupport		
		String type put	Support	Unsupport		
		Bytes type put	Support	Unsupport		
		Compression transmission	Support	Unsupport		
		S3 compatible metadata	Support	Support		
		Content integrity verification	Support	Support		
		Chinese/Asian font support	Support	Unsupport		
	<u>Metadata Retrieve</u>	Custom metadata	Support	Unsupport		
		S3 compatible metadata	Support	Support		
		Metadata get from specified version	Support	Support		
		Request wait	Support	Support		
		Chinese/Asian font support	Support	Unsupport		
	<u>Metadata List</u>	Specified version metadata list	Support	Support		
		Deleted object metadata list	Support	Unsupport		
	<u>Metadata Deletion</u>	Custom metadata deletion	Support	Unsupport		
		S3 format metadata deletion	Support	Support		
		Batch metadata deletion	Support	Unsupport		
	<u>System Metadata</u>	Hold Modify	Support	Unsupport		
		Index Modify	Support	Unsupport		
		Retention Modify	Support	Unsupport		
		Shred Modify	Support	Unsupport		
		Owner Modify	Support	Unsupport		
	<u>Others</u>	Custom metadata existence check	Support	Unsupport		
		S3 compatible metadata existence check	Support	Support		
	<u>ACL</u>	<u>ACL Set</u>	ACL Setting override	Support	Support	
			ACL Setting append	Support	Unsupport	
<u>ACL Retrieve</u>		ACL configuration fetch	Support	Support		
		Specified version ACL configuration fetch	Support	Support		
<u>ACL Deletion</u>		Specify user ACL deletion	Support	Support		
<u>Others</u>		ACL existence check	Support	Unsupport		
	Specified version ACL existence check	Support	Unsupport			
<u>Namespace Information</u>	<u>Inforation Retrieve</u>	Bucket Retention Class list	Support	N/A		
		Accessible bucket list	Support	Support		
		Current bucket configuration retrieve	Support	N/A		
		Bucket permission obtain	Support	N/A		
		Bucket statistics	Support	N/A		

Scope	Operation	HCP Function	HCP SDK	S3 SDK	Description
<u>Metadata Query(MQE)</u>	<u>Object-based query</u> <u>Action based query</u>	Grammar search	Support	N/A	
		Results sorting	Support	N/A	
		Page result	Support	N/A	
		Page in order	Support	N/A	
		Page in reverse	Support	N/A	
		Offset	Support	N/A	
		Column specification	Support	N/A	
		Facet	Support	N/A	
<u>Tenant Management</u>	<u>Account Management</u>	Account list	Support	N/A	
		Account creation	Support	N/A	
		Account setting retrieve	Support	N/A	
		Account deletion	Support	N/A	
		Account role assign	Support	N/A	
		Existence check	Support	N/A	
		Password change	Support	N/A	
		Password reset	Support	N/A	
	<u>Namespace Management</u>	Bucket create	Support	Support	AWS-S3 could not create bucket in configurable way
		Bucket deletion	Support	Support	
		Bucket list	Support	Support	
		Bucket basic configuration retrieve	Support	N/A	
		Bucket configuration changes	Support	N/A	
		Bucket protocol configuration retrieve	Support	N/A	
		Bucket protocol configuration modification	Support	N/A	
		Bucket statistics	Support	N/A	
		Tenant chargeback report	Support	N/A	
		Existence check	Support	Support	
		CROS	Support	Support	
		Bucket global permissions retrieve	In Progress	N/A	
		Bucket global permissions modification	In Progress	N/A	
	<u>Permission Management</u>	Permissions retrieve	Support	N/A	
		Permissions assign	Support	N/A	
<u>System Management</u>	<u>Tenant Management</u>	Tenant deletion	Support	N/A	
		Tenant configuration fetch	Support	N/A	
		Tenant statistics retrieve	Support	N/A	
		Tenants list	Support	N/A	
		Tenant chargeback report	Support	N/A	
		Existence check	Support	N/A	
		Tenant creation	In Progress	N/A	
		Tenant configuration modification	In Progress	N/A	
		Service plans list	In Progress	N/A	
		Service plans configuration retrieve	In Progress	N/A	
		Console configuration retrieve	In Progress	N/A	
		Console configuration modification	In Progress	N/A	
		Contact information retrieve	In Progress	N/A	
		Contact information modification	In Progress	N/A	
		Email notification configuration retrieve	In Progress	N/A	
		Email notification configuration modification	In Progress	N/A	
		Default bucket configuration retrieve	In Progress	N/A	
		Default bucket configuration modification	In Progress	N/A	
		Tenat permissions retrieve	In Progress	N/A	
		Tenat permissions modification	In Progress	N/A	
		Search console configuration retrieve	In Progress	N/A	
		Search console configuration changes	In Progress	N/A	
	<u>System Account</u>	Password changes	In Progress	N/A	