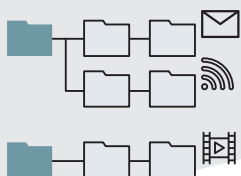# Fujifilm Provides A New Method to Archive Data

Object Archive

Fujifilm Object Archive, which has S3 compatible API interface, is a state-of-the-art solution for low-cost petabyte-scale storage.

By leveraging the latest advances in tape technology and object storage, leading companies and research institutes have been able to reduce costs, optimize performance, and increase the longevity of their data.
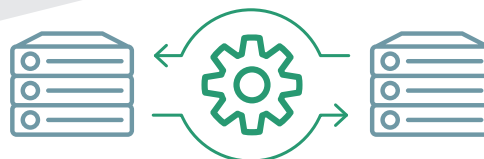
What is object storage?

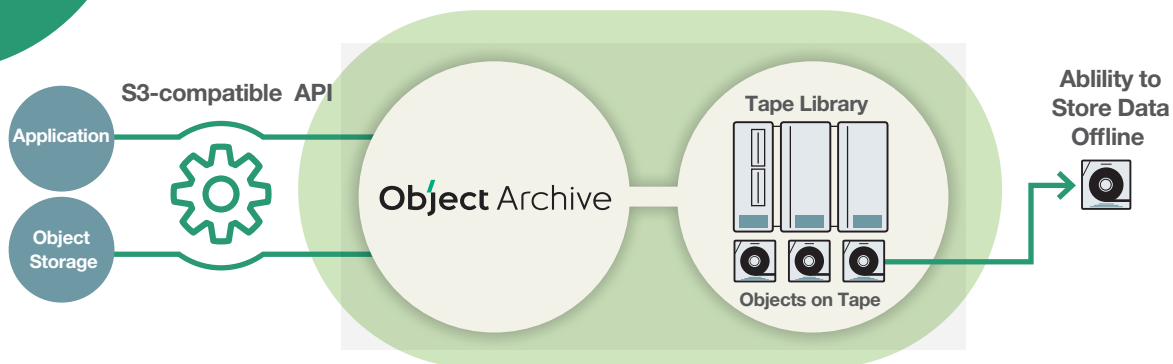**Conventional File Storage**

Object Storage

S3 API

In contrast to hierarchical file storage, object storage manages the identification of each parcel of data in a flat structure, with metadata attached so that searchability of content data is high and file amounts and sizes can be extended almost limitlessly.

Fujifilm Object Archive, like cloud and object storage, uses Amazon's widely adopted S3 API.

What is FUJIFILM Object Archive?

S3-Compatible Read/Write to Tape!

Automatically read and write to tape through S3 compatible API applications. Data is stored directly on tape in "object" format just like object storage. Tapes can then be read efficiently by S3 Glacier-compatible API.

S3-compatible API

Application

Object Storage

Object Archive

Tape Library

Ablility to Store Data Offline

Objects on Tape

Advantages of Tape Storage

Low Cost

Reduce costs for object storage by 80% or more.Digital tapes have the lowest cost of ownership of any long-term data storage solution. The cost of storing large amounts of archive data in the cloud are much higher than you think, and may increase significantly when you try to access your data.

High Reliability

Digital tapes also feature the lowest Bit Error Rates – with an error rate of 1 bit in 1×10^{19} bits. Proving to be way more reliable than Flash SSD which has a bit error rate of 1×10^{17} and Fibre Channel & SAS HDD which has a bit error rate of 1×10^{16}.
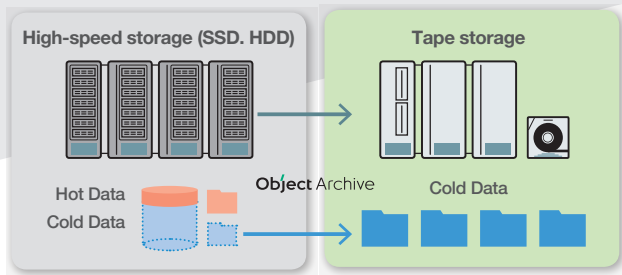
Secure and Dependable

Increase data protection from cyber threats and disasters.Digital tape is the ideal solution for offline, long-term data storage since data stored offline has an "Air Gap" making it inaccessible to unauthorized access for protection against ransomware.

A Tape Archive Designed Specifically For Object Storage, With S3 Compatible API Interface.
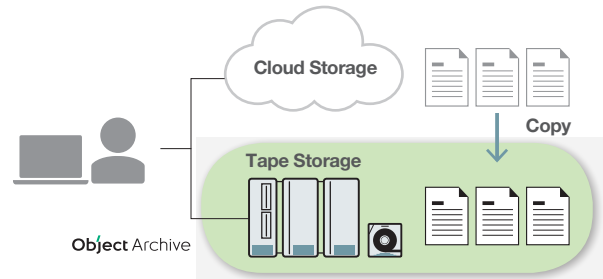
1 Cold Data Archiving

Fujifilm Object Archive allows you to create an archive so that you can free up valuable space on expensive primary storage - while still storing all of your organization's data online. Moving cold data to an archive allows you to balance speed of data access with the cost of storage.
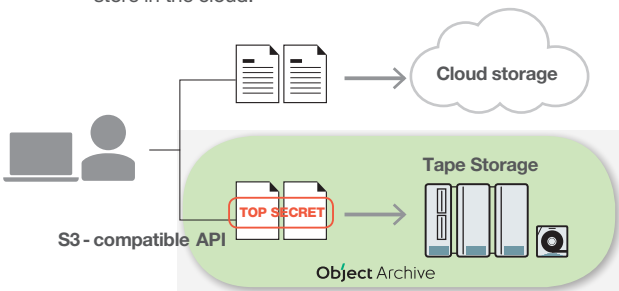

2 Prevent Cloud Lock-In

What if I need to change cloud providers or get all my data back?" By keeping a copy of your data, you can avoid expensive egress fees. Additionally, many cloud vendors will store your data in proprietary formats, avoid the difficult transformation process by keeping a copy of your data.
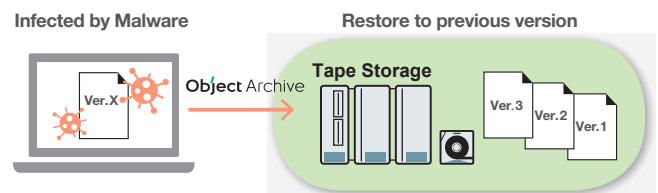

3 Create a Hybrid Cloud Storage

Tape storage is effective for storing mission-critical data that cannot be stored in a cloud environment, or for storing large amounts of data that would be more expensive to store in the cloud.

4 Protect Information from Cyber Attacks

Files are automatically versioned* when data is edited, increasing the likelihood of file recovery in the event of a cyber-attack. For example, when a file is infected with malware, it is possible to restore it to the previous version stored on the tape.

*Every modification to a file inherently results in a new version of the file. Instead of replacing the previous version with the new one, a versioning file system retains both.

FUJIFILM
Value from Innovation