

SOLUTION BRIEF

Comprehensive Data Protection, Cloud-like Workflows, and Predictable Costs with Clodian HyperStore and FUJIFILM *Object Archive* software

Benefits

- Always accessible, flexible, resilient, highly scalable and economic object storage layer
- Data lifecycle management (DLM) to move and recall colder data between HyperStore and *Object Archive*'s digital tape object storage tier
- Offers true data immutability with object lock at HyperStore and Air Gapping at the *Object Archive* tier for complete Ransomware protection.
- Efficient and Secure with compression and encryption capabilities
- Highly available architecture with built in data redundancy
- Reduced storage cost of up to 60% as compared to traditional storage architecture

Delivering a Highly Scalable and Searchable Multi-tiered Archive

Organizations are creating and consuming exponentially more data year over year. Storing and managing this precious resource is an evolving and potentially expensive proposition.

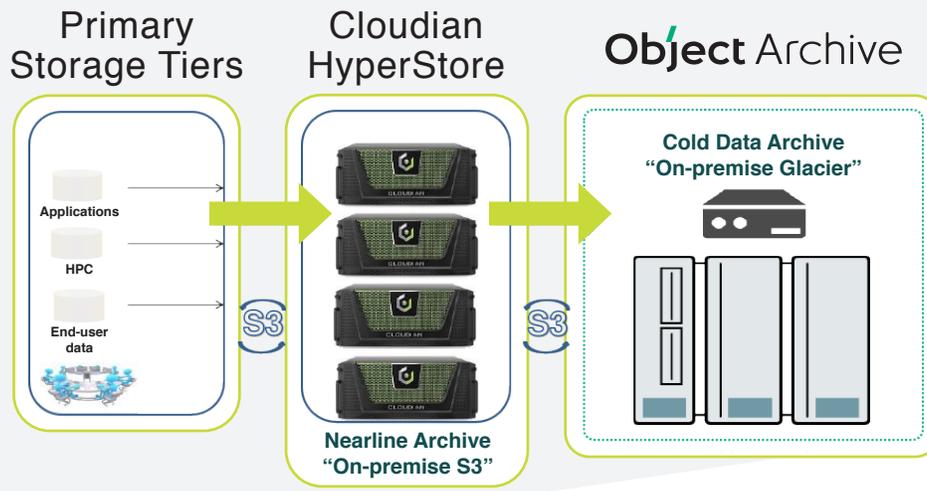
A key challenge is designing a storage system that scales with the needs of the business. Not all data needs the same treatment – at least 60% of data is typically “cold” and infrequently accessed¹ – but the storage systems need to ensure availability and security of all data. In order to handle this data deluge, storage architecture needs to consider different tiers based on frequency of access, security needs, and cost considerations.

Clodian HyperStore, the industry leading on-prem S3 object storage platform, and FUJIFILM *Object Archive* software create a comprehensive solution for object storage, providing the best-in-class availability, data protection and scalability of object storage, with the cost benefits of modern magnetic tape. The combined solution brings together an S3 Object Storage tier (the de-facto storage for the cloud) and an S3 compatible magnetic tape tier, in your data center, offering

unrivaled flexibility, and the highest level of data security²—including protection against ransomware, by creating a physical, offline air-gap.

With this joint solution, users' native data access and search capabilities are maintained by HyperStore. HyperStore seamlessly provides automated tiering to FUJIFILM *Object Archive* software via an S3-compatible API integration. This allows “colder” digital assets to automatically move to and from HyperStore to *Object Archive*'s digital tape object storage tier without any additional end-user process.

HyperStore utilizes policy-based data lifecycle management (DLM) to enable backup and archiving of objects with granular controls applied to each bucket of data. These processes will move and recall data automatically, as required by upstream applications and users accessing archived content.



Data immutability along with Real Air-gap Technology Provides the Highest Level of Data Protection from Ransomware

Cloudian HyperStore protects data from ransomware attacks using S3 Object Lock, the industry standard for Data Immutability in the Cloud. This permits data to be made unchangeable for a set period of time, preventing hacker encryption or deletion and ensuring a clean data copy for reliable recovery.

In addition to this, the combination of HyperStore’s geo-protected architecture and FUJIFILM *Object Archive*’s air-gap technology can maximize logical and physical security, and provide unsurpassed data protection and immutability², for the most mission-critical and sensitive datasets.

Object Archive’s use of modern magnetic tape technology allows the end user to benefit from a physical air-gap in its data protection solution, providing the most secure protection against ransomware and other data loss events².

Policy-based controls ensure the right amount of protection and security for digital assets

With the joint solution, HyperStore maintains control of all data in FUJIFILM *Object Archive*, providing a single point-of-access and policy-based data protection for operational simplicity. The native S3 API provides seamless integration with modern data management and data protection solutions. This includes the ability to take advantage of the scalability, reduced cost, and security of modern digital tape.

FUJIFILM *Object Archive* integrates seamlessly with HyperStore by allowing for a cold storage tier to protect and archive data from HyperStore. The data flow for protection and archiving is controlled by Cloudian HyperStore. The end users and applications continue to access and search for their data through the Cloudian Hyperstore, even if it is on tape in *Object Archive*. There is no need to re-map data location or work through complex searches to locate archived data.

Like Public Cloud Tiers in your Datacenter, but with Fast Access and Predictable Costs

It will always be challenging to manage sensitive and mission critical data in the public cloud. Most users have some data they know is unsuitable for the public cloud. This could be due to the confidential nature of the data (like PII or financial statements, and other sensitive or proprietary data sets that require special access and protection). For most modern workflows, though, it's important to maintain native, cloud-like services and access to an organization's most sensitive data in the same way the public cloud manages the organization's less sensitive information.

From a workflow standpoint, the combination of Clouidian HyperStore and FUJIFILM *Object Archive* is just like having the public cloud data available, and on-site archive access, but with significant advantages.

First, *Object Archive* data is highly available, taking minutes to access instead of hours, as with some cloud archive services. The data is seamlessly migrated into and out of the tape archives with a single point of access and control in HyperStore. Data can be highly protected by having multiple copies, including an offsite storage "air-gap." The data is fully encrypted, under your control, and fully available at the same time.

The second advantage is predictable cost. It's almost impossible to understand and predict corporate spending on public cloud ahead of time. At best, you will get an idea of costs, and it's easy to be surprised by how quickly these costs add up, especially with egress fees. Use of FUJIFILM *Object Archive* allows for highly accurate and predictive future data storage and access cost.

Clouidian HyperStore And FUJIFILM *Object Archive* for Multi-tenant Use Cases

Multi-tenancy is integrated into the overall solution, providing MSPs an instant plug-and-play solution for multi-tiered storage services. Provide the best-in-class data availability of Clouidian HyperStore with tape storage - the easily scalable and low cost object storage for cold digital assets. This combined solution provides full management and control with easy, on-the-fly provisioning for the varied demands of your organization.

About FUJIFILM Recording Media, U.S.A., Inc.

Beginning in 1934 as Japan's pioneering photographic film maker, Fujifilm has leveraged its imaging and coating technology to become a global presence known for innovation in healthcare, graphic arts, optical devices, highly functional materials, and data storage. FUJIFILM *OBJECT ARCHIVE* software makes hybrid cloud storage, cold data archiving, and increased data security environments a reality for object storage by enabling S3-compatible API and modern data tape. Now data centers can easily improve scalability, security, and decrease costs. Additionally, the tape-inclusive subscription model provides predictable storage spend and can be recognized as an operational expense.

About Clouidian

Clouidian is the most widely deployed independent provider of object storage. With a native S3 API, it brings the scalability and flexibility of public cloud storage into the data center while providing ransomware protection and reducing TCO by 60% or more compared to traditional SAN/NAS and public cloud. The geo-distributed architecture enables users to manage and protect object and file data across sites—on-premises and in the cloud—from a single platform. Available as software or appliances, Clouidian supports conventional and containerized applications. More at clouidian.com.

¹ See "TIERED STORAGE – Building the Optimal Storage Infrastructure", August 2020.

² See "The Tape Air Gap – Protecting Data from Cybercrime", August 2020.