Fujifilm Object Archive

Archive Solution for Research and HPC Workflows

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Over 85 Years of Innovation

- **Imaging Solutions**
  - 1934: Photographic film, Motion picture film
  - 1948: Color reversal film, still cameras
  - 1976: World First, Fuji Color 400
  - 1986: World First, QuickSnap, one-time-use recyclable camera
  - 1996: World First, Digital Minilab
  - 1988: World First, Digital still camera
  - 2009: World First, 3D digital camera

- **Information Solutions**
  - 1934: Plate-making film
  - 1958: FUJITAC (TAC film)
  - 1965: PS plates / tapes for computers (highlighted)
  - 1986: World First, Digital diagnostic X-ray imaging system: FCR
  - 1996: World First, WV film
  - 2004: World First, Full Digital endoscope, double-balloon endoscope

- **Document Solutions**
  - 1962: Japan First, Copy machine
  - 1975: Color copy machine
  - 1993: World First, DocuTech, high-speed printing / publishing system
  - 1989: Digital multi function devices
Fujifilm’s Object Archive is a software defined archival tier designed to reduce cost, increase protection and provide the highest level of security for long-term digital assets for digital Preservation and long-term data archiving

- Hybrid Cloud Solution - Works like Glacier in your datacenter
  - Chain of Custody
  - Air Gap Security
- S3 Compatible API
  - User-defined metadata - FAIR
- Predictable costs and TCO with no API or egress fees
Object Archive’s runs on a x86 LINUX server running Red Hat 8
The server connected to a tape library and drives via Fibre Channel or SAS
The server presents buckets on the network for users and application to read and write data
Object Archive automates all reads and writes on tape
Archive Data Management

- Multi-Tenant Solution
- Up to 10,000 buckets/Regions in Software-defined Tape
- Archive data access maintained via S3 buckets on disk object storage

Data services and access
- Energy 1
- HPC 2
- Cryo 3
- Genome

Nearline Storage
- NAS
- HPC Offload

Region: Energy europe-1
Region: HPC 2
Region: Genome
HPC Storage Orchestration and Archive

Storage Orchestration

Object Archive integrated with iRODS and Slurm
Scheduled offload and staging
Software-defined access and performance to tape

HPC Clusters

- Energy 1
- HPC 2

• Slow Scratch
• HPC Offload
• NAS

iRODS

Region:
- Energy-europe-1
- HPC 2
- Genome

user defined

S3
Thank you

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