

EBOOK

# Hitachi Content Software for File: The Perfect Data Platform for Life Sciences

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**HITACHI**  
Inspire the Next



**Data pipelines are often bottlenecks of Life Sciences R&D. Any method of eliminating them or accelerating workloads is highly welcomed in labs worldwide.**

**Hitachi Content Software for File** is a modern data platform that is uniquely built to solve the big data problems of life sciences workloads including Cryo-EM and Genomics. It gives you an easy-to-deploy cost-effective storage solution, with the scale and high performance you need to accelerate research. Hitachi Content Software for File is fully integrated with **Hitachi Vantara's Object Storage**, so you fully benefit from the cost and scale of the cloud—without the complexities and compromise.

- 01** Accelerated Performance Results for Genomics Research
- 02** Zero Copy Architecture Improves Patient Outcomes
- 03** Supercharge Cryo-EM Processing
- 04** Increase Collaboration with Integrated Cloud Connectivity
- 05** World Class Data Protection with Hitachi Content Platform

01

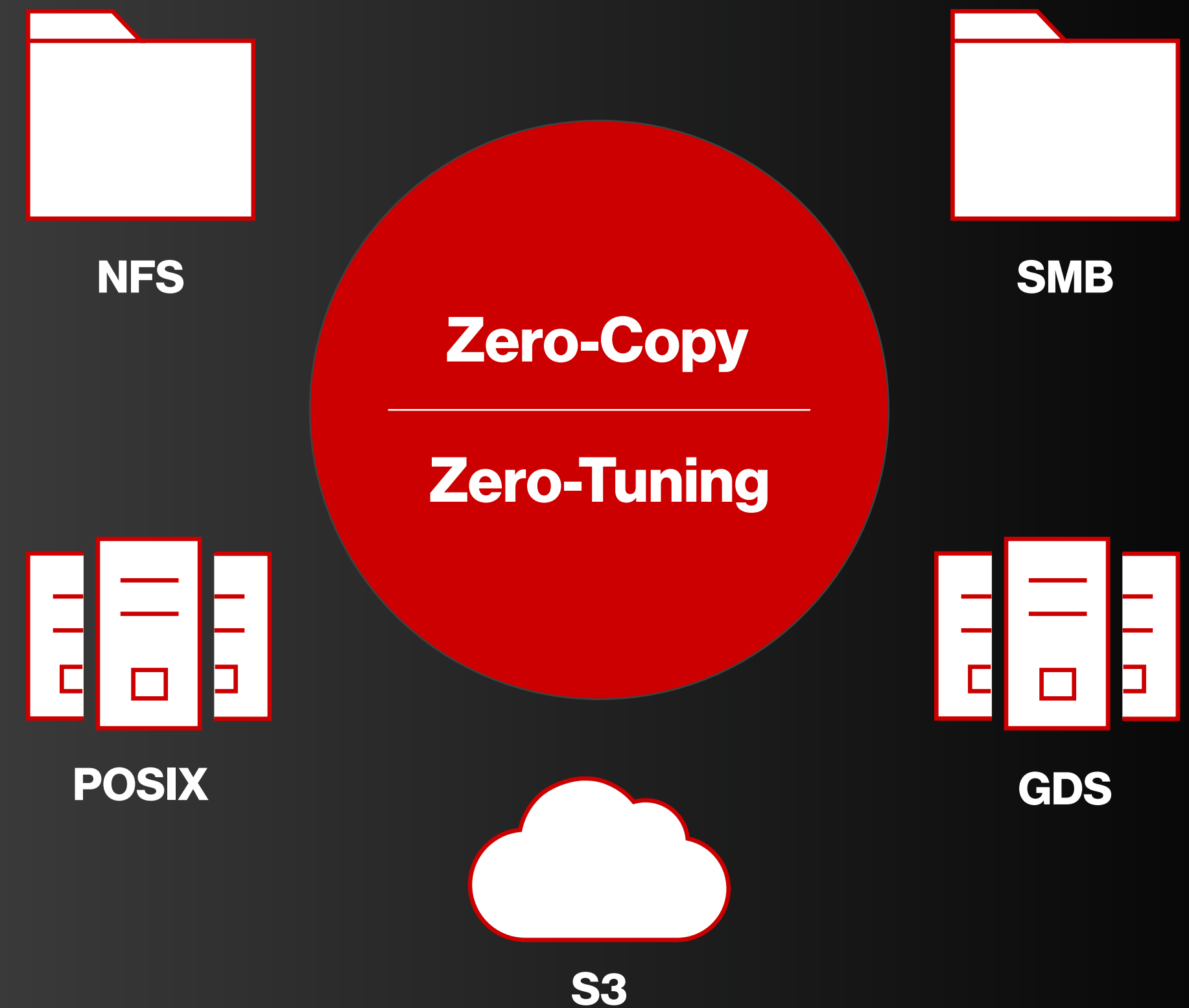
# Accelerated Performance Results for Genomics Research

Hitachi Content Software for File boasts the lowest latency file system on the market. This along with automatic load balancing enables insanely quick data access and lets researchers to be more productive and focus on science. Being able to scale dynamically to meet changing workload demands is a game changing feature. [Hitachi Content Software for File](#) is suited for GPU driven workloads used in genome mapping including NVIDIA® Clara™ Parabricks Pipelines and Google DeepVariant Algorithms.

# 02 Zero Copy Architecture Improves Patient Outcomes

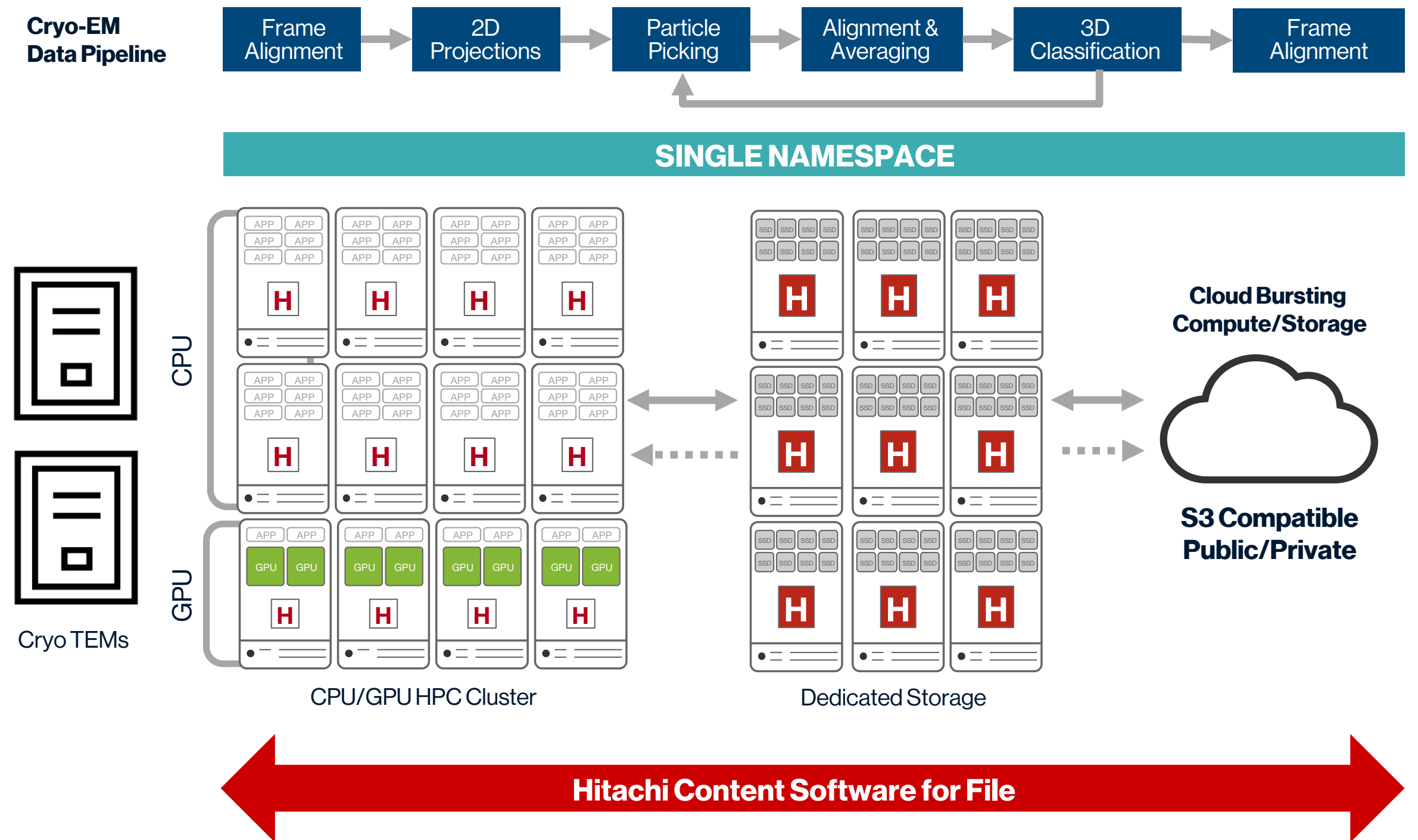
Improved patient care requires that the right information be available to the right person, in the right place, at the right time. Hitachi Content Software for File has a clean sheet design that ensures all data, no matter how old, is always available to the right person. Multiple protocols to support multiple access methods, improving collaboration across researchers. Integration with Hitachi's market leading S3-compatible object storage allows transparent connectivity to cloud storage without special software and allows retrieval from archived storage at lightning speed.

## Hitachi Content Software for File



# 03 Supercharge Cryo-EM Processing

Within the world of accelerated Cryo-EM it's commonly known that data pipelines are the bottleneck. What you need is a data platform that can give the performance needed for HPC GPU clusters to operate efficiently and as fast as possible, which can shorten image processing time by 60%-90%. With Hitachi Content Software for File you are able to dynamically support the variability in access patterns and data size, Host petabytes of clinical research data from a single system, and utilize object storage to provide access to all data when needed. You get a filesystem that supports both on-premises and cloud-based environments for hybrid workloads, seamlessly.



# 04 Increase Collaboration with Integrated Cloud Connectivity

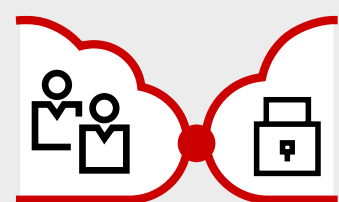
Researchers must have the ability to quickly and easily share their source data and results with colleagues and partner organizations. Hitachi Content Software for File features a POSIX-compliant, parallel, and distributed file system that allows shared file access to multiple researchers and organizations. Integrated tiering to any S3-compatible object store allows for seamless connectivity to the cloud without special software. All files remain part of the global namespace and appear local to users and applications, and multi-protocol support provides anywhere, anytime data access.



# 05 World Class Data Protection with Hitachi Content Platform

In many areas of life sciences, you may be dealing with sensitive data. From top to bottom, the Hitachi Content Platform (HCP) Portfolio offers organizations of all sizes a solution that secures the entire data center. HCP has one of the most secure object stores in the industry, and its write-once-read-many (WORM) versioning capabilities enrich and complement any existing ransomware strategy.

Hitachi Content Platform Anywhere (HCP Anywhere) extends these capabilities to remote and branch offices, as well as end-user devices. It provides enterprise file synchronization capabilities, which protect a site's or user's data, to keep your business running. These products not only enable a secure, mobile, IT environment, but they also protect data in the data center, across remote and branch offices, and even employee endpoint data located outside the corporate firewall.



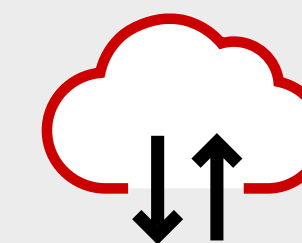
## PRIVATE or HYBRID CLOUD STORAGE

Hitachi Content Platform (HCP)



## FILE SYNC and SHARE

Hitachi Content Platform Anywhere (HCP Anywhere)



## CLOUD STORAGE GAREWAY

Hitachi Content Platform Anywhere Edge

Object storage and enterprise file sync and share may not immediately come to mind when thinking of an effective ransomware strategy. But together, they have many of the ideal capabilities that allow for the protection of the most valuable organizational and user data.

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**Learn more about Hitachi Content Software for File.** Blazing fast distributed file system for high-performance computing, AI, ML and analytics workloads.