

Qumulo and HPE – High performance, cost-effective Vendor-Neutral Archive storage solution

Data challenges of healthcare organizations

Many healthcare organizations, through growth and acquisition, end up with multiple PACS (Picture Archiving and Communication System) imaging systems along with their associated storage solutions, which can become disparate, both on-prem and geographically. The DICOM data being stored is proprietary to each system, with many fields, especially annotations, each being treated differently.

The management, maintenance, and scalability of these siloed systems can become increasingly complex and costly over time. Limited clinician access to data slows processes, and affects both patient care and organizational profitability. In many cases, proprietary storage systems can result in vendor lock-in, as well as migration costs and challenges, preventing organizations from harnessing more cost-effective, modern solutions.

In order to continuously improve patient services and commercial efficiency, today's healthcare organizations require the flexibility of modern file storage to support and manage the data generated by newer,

higher resolution diagnostic and interventional imaging, along with AI and ML technologies to grow research initiatives and innovation.

Consolidate and unify access with a single vendor neutral archive for all medical images

Qumulo's innovative hybrid cloud file storage running on your choice of HPE Apollo 4200 Gen10 servers for deep storage use cases and the HPE ProLiant DL325 Gen10 Plus servers for dense and performant use cases provide a unified, cost-effective, and scalable storage architecture that eliminates silos of expensive, proprietary storage, and moves them to a modern, software-defined, subscription-based model.

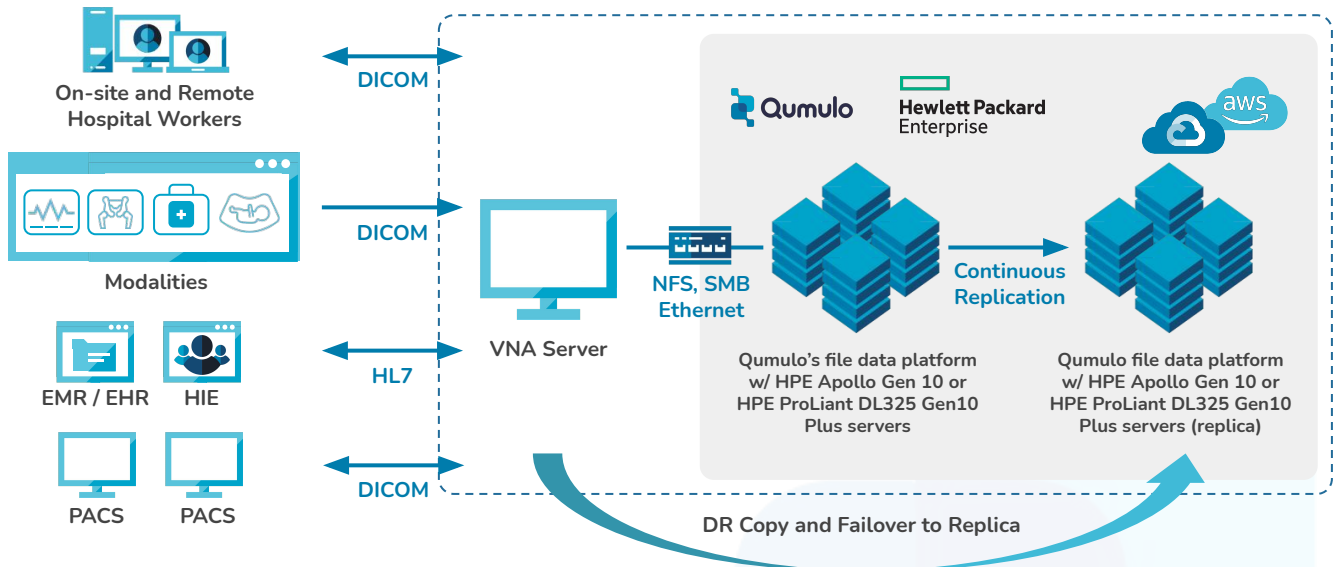
Leading VNA solutions, including Hyland's Acuo VNA, can consolidate multiple PACS systems, allowing all modalities (X-rays, CAT scans, MRIs, etc.) to store data to Qumulo's file software using SMB or NFS protocols, while data is served to viewing workstations and other hospital-related systems via secure DICOM protocols.

Hewlett Packard Enterprise

SOLUTION BENEFITS

- Now providing the densest all-NVMe solution available with the HPE291T
- Secure, cost-effective vendor neutral archive storage
- Reduce CAPEX and OPEX
 - Consolidate multiple PACS
 - Streamline workflows
 - Software-defined architecture
 - Simple to manage, scale and support
 - Eliminate costly migrations
- Fast, unified data accessibility to all clinicians and devices
- Add new PACS systems with ease
- Real-time analytics to manage entire file system
- Continuous replication on-prem or to the cloud
- Improve overall patient experience
- Proven solution with leading PACS providers: Change Healthcare, Fujifilm, Merge/IBM Watson Health, Philips Healthcare, Agfa, Sectra, Hyland Acuo

Qumulo with HPE Single-Tier Vendor Neutral Archive



Maximum efficiencies, protection, and simple, cost-effective scalability

The Qumulo with HPE storage solution is more economical than legacy storage offerings with regard to capacity utilization. The solution efficiently manages both large and small files generated by today's imaging technologies, and enables healthcare studies and other patient data to occupy 100 percent of provisioned capacity, unlike 70-80 percent as seen with many other file storage systems. Efficient, long-term archive data protection is provided through the use of erasure coding, which delivers superior data protection with minimal storage overhead. No separate hardware or software is needed for tiering; Qumulo's intelligent predictive caching moves static data from SSD to more cost-effective HDD storage.

Flexibility to meet your growing needs

Qumulo is available on a variety of server platforms. The HPE Apollo 4200 Gen10 servers offer advanced storage density in a 2U form factor. The HPE ProLiant DL325 Gen10 Plus servers provide all-NVMe performance. The newest member of the family, the 1U HPE 291T provides the densest all-NVMe storage server on the market bring high performance and the highest density to health care customers and VNA use cases. Qumulo provides a modular architecture. Adding capacity is as simple as adding a single node (or multiple nodes) to the cluster, with no disruption or downtime.

Data reliability through continuous replication on-prem or in the cloud

Qumulo's file system provides continuous replication across storage clusters, whether on-prem or in the public cloud. This feature leverages snapshot capabilities to ensure consistent data replicas. Qumulo's file system then takes it a step further, applying smart algorithms to make sure data replicates as often as practical without negatively impacting overall cluster performance. In the event the primary data center is unavailable, data can be retrieved from the replica cluster.

Data protection and security for all medical imaging and clinical data

This solution provides built-in data protection through local and remote snapshots and continuous replication, to ensure data is preserved and always available. Together, Qumulo and HPE provide over-the-wire and at-rest encryption to ensure confidential records are secure. Working closely with key healthcare industry partners and PACS providers, Qumulo and HPE deliver solutions that assure compliance with government and institutional data privacy and security regulations, meeting HIPAA regulations for compliance, including encryption and off-site copies.

Real-time analytics for data visibility and growth predictability

Qumulo provides built-in real-time analytics to provide insight across the entire file system regarding storage usage and performance trends. With this superior visibility, organizations can proactively manage current and future capacity requirements.

About Qumulo

Qumulo is the breakthrough leader in simplifying enterprise file data management. Qumulo offers a high performance file data platform that helps organizations store, manage and build with petabytes of unstructured data in its native file form across cloud and on-prem environments with radical simplicity.

www.qumulo.com