

High Performance, Scalable Storage Solution for Vendor Neutral Archives (VNA)

Data is central to healthcare, driving diagnoses, treatments, and patient care. As medical technologies evolve, the volume and complexity of healthcare data grow rapidly, spanning both local and global systems. Electronic Medical Records (EMR) and Electronic Health Records (EHR) capture patient data, while diagnostic tools like MRI, CT, and X-rays generate vast imaging data managed through PACS. However, many healthcare organizations, due to growth and acquisitions, end up with multiple, disparate PACS systems and storage solutions. The DICOM data stored is often proprietary, with variations in fields, especially annotations.

Unify access with a single VNA for all medical images

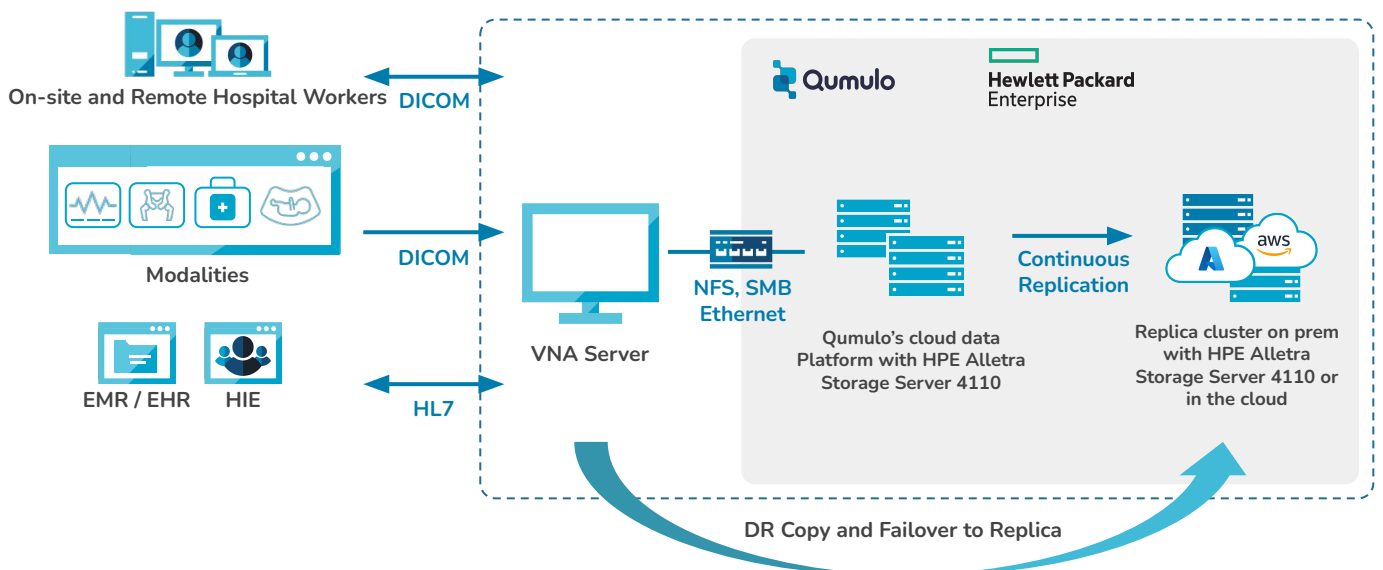
Qumulo hybrid cloud file storage, powered by HPE Apollo 4200 Gen10 servers for deep storage and HPE Alletra Storage 4110 and 4140 servers for high-performance use cases, offers a unified, scalable, and cost-effective solution. This modern, software-defined storage model eliminates expensive, proprietary storage silos and enables a shift to a subscription-based approach. Leading VNA solutions, such as Hyland's Acuo VNA, can consolidate images from multiple PACS systems, enabling all modalities (X-rays, MRIs, CT scans, etc.) to store data on Qumulo using SMB or NFS protocols, while securely delivering data to viewing stations and hospital systems via DICOM protocols.

Optimize efficiency, scalability, and data protection

Qumulo and HPE deliver a cost-effective, scalable solution designed to maximize capacity utilization, achieving near 100% efficiency. Qumulo efficiently manages both large and small imaging files, leveraging advanced erasure coding for long-term data protection with minimal overhead. Intelligent predictive caching moves static data from high-cost SSDs to more economical HDDs, eliminating the need for separate hardware or software for tiering. Qumulo enables seamless scalability, allowing healthcare organizations to add capacity without downtime.

Data reliability is ensured through continuous replication, on-premises or in the cloud. Smart algorithms optimize replication performance, while snapshot capabilities ensure data consistency and accessibility. Robust security features, including both in-transit and at-rest encryption, ensure HIPAA compliance for sensitive medical data. Qumulo's built-in real-time analytics deliver deep visibility into storage usage and performance trends, enabling healthcare providers to predict growth and optimize resource management.

Qumulo with HPE file storage for VNA



Hewlett Packard Enterprise

SOLUTION BENEFITS

- Integrated with HPE's industry-leading data storage servers – choose from budget-friendly S-XL Hybrid NVMe nodes or dense all-NVMe nodes that handle even the most demanding of enterprise needs.
- Secure, cost-effective VNA storage
- Fast, flash-first data access
- Multiprotocol (SMB, NFS, S3 and REST API) access to support every workload
- Near 100% storage efficiency with no performance compromise
- Continuous replication on-prem or to the cloud
- Data protection, security, and real-time analytics to manage entire file system
- World-class customer success
- Reduce CAPEX and OPEX
 - Consolidate images from multiple PACS platforms
 - Streamline workflows
 - Software-defined architecture
 - Eliminate costly migrations
- Consume as-a-service with HPE GreenLake Flex Solutions