Use case: Qumulo File Management for healthcare environments

White Paper

Cope with increasing amounts of file data Leverage a unified namespace for all your files Apply an enterprise appliance with enterprise support

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Bringing Healthcare into the Future

In order to speed diagnosis, healthcare technologies continue to rapidly evolve. Advanced imaging systems, including digital modalities such as MRI, CT, and PET scans, are producing higher resolution images to enhance the accuracy of clinical decisions. As the number of these systems grow throughout each healthcare system, and the number of images being produced increases, imaging data is growing at an increasingly rapid rate. Hospitals and clinics are managing many more and much larger imaging studies, which need to be highly available across departments and remote facilities.

To meet these challenges, healthcare systems require a modern data storage solution that can provide fast reliable access, and that can support new imaging technologies, growing data requirements, and enable a path to cloud environments for future purposes.

Qumulo enterprise-proven file storage solution

Qumulo offers a fast, cost effective, and secure image storage solution, to manage and retain the massive data volumes generated by managing systems today. Partnering with the leading PACS providers, Qumulo delivers a complete and trusted enterprise imaging solution that consolidates storage while providing fast, reliable access. Qumulo provides simple scalability and enterprise data management across on-prem data centers, as well as offering the option to leverage multiple cloud environments. Qumulo's fast, accessible solution speeds patient services and reduces administrative storage costs.

Hyper-scale File Management with Qumulo

Scale-out NAS and hybrid file software

- Fast, cost-effective, secure image storage
- Handle large amounts of files – independent of file size
- Linear scalability in performance and capacity

Unified File Management

- Optimized for leading PACS and VNA providers
- Multi-protocol enables data consolidation – allowing to share information repositories
- Access control and Active Directory integration to ensure data privacy

Enterprise Appliance

- Easy to scale, pre-certified appliance architecture ensures reliability and ease of operation
- Manage growth and reduce storage cost with real-time analytics
- Fast flash-first data access to speed workflows

More information

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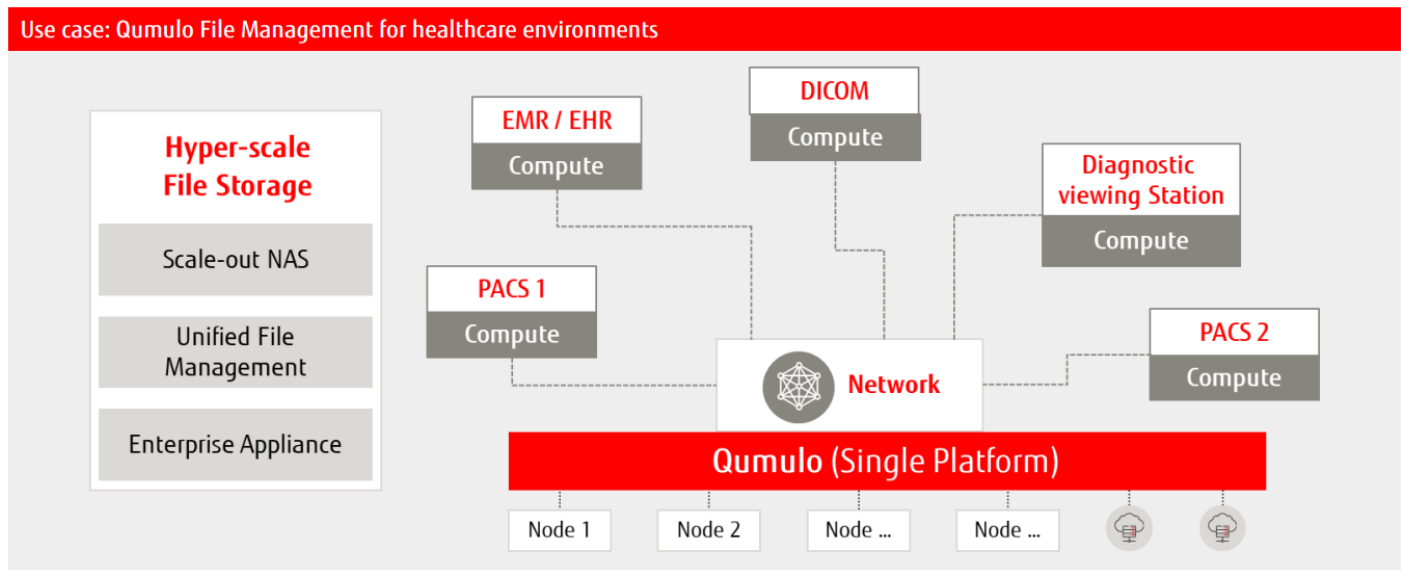
Scale-out NAS and hybrid file software

As healthcare data capacities continue to expand and grow, organizations can benefit from Qumulo enterprise-proven file storage, which employs a modular, scale-out file storage architecture. Qumulo's software-defined design utilizes clusters of nodes made up of prequalified hardware. Managing growth is simple. Just add nodes to the existing infrastructure to increase performance and capacity levels uniformly on-prem, or to multiple cloud environments, when required, with no disruption or downtime.

- Performance independent of file size
- Performance independent of number of files
- Linear and predictable scalability of performance and capacity
- No limitation of file size
- No limitation of number of files

Unified File Management

The Qumulo file storage system is simple to deploy, manage, and scale. With Qumulo's single namespace, healthcare organizations can unify access to the PACS imaging storage, as well as simplify and reduce the cost of data management. Accessible through NFS and SMB protocols, Qumulo's file storage fits perfectly

into healthcare environments and integrates with existing network clients.

- Unified Namespace allowing to share and distribute information
- Multi-protocol enables data consolidation between various data sources
- Optimized for leading PACS and VNA providers
- Access control and Active Directory integration to ensure data privacy

Enterprise Appliance

Qumulo's flash-first hybrid architecture andintelligent caching technology optimizes performance for healthcare organizations. Viewing stations across the healthcare system can count on extremely fast access to all imaging data with the speed of flash. While, the data that is not actively accessed, is moved to more economical hard disk drives (HDD). Qumulo provides built-in real-time analytics to provide insight across the entire file system, to enable storage administrators to easily monitor storage usage and performance trends. With this superior visibility, healthcare organizations can gain control, reduce overall operational and capital costs, by proactively managing current needs and better predicting future storage requirements.

- Easy and reliable operation
  - Pre-certified appliance architecture
  - Easy to scale
- Comprehensive real-time analytics
  - Reduce storage cost with insights
  - Audit capabilities
- Fast data access to speed workflows
  - Fast flash-first architecture with AI driven pre-fetch
  - No tree-walks necessary

About Qumulo

Qumulo is the leading provider of cloud file data services, providing real-time visibility, massive scale and API control of your data across on-prem, and private and public clouds. Qumulo's cloudnative file system delivers an identical experience and capabilities across on-prem, hybrid, cloud, and multicloud environments.

www.qumulo.com

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For more information on Use case: Qumulo File Management:

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