



Solution Brief

NetApp and PACS Alliance Providers

Simple, scalable, and reliable image storage and archiving

Key Benefits

Maximize IT Investment

NetApp offers a simple, scalable, and proven solution for medical imaging. The company is validated by leading PACS providers. NetApp® ONTAP® data management software meets the growing demand for medical imaging collection and access while optimizing IT investment.

Enhance Patient Care

What is the cost of downtime in your imaging environment? NetApp ONTAP provides nondisruptive operations, enabling you to scale, upgrade, and maintain your storage without downtime.

Optimize Performance

NetApp FAS running ONTAP delivers easily scalable bandwidth and high IOPS to support data-intensive imaging applications for imaging files of any size without sacrificing storage space.

Maximize System Flexibility

Consolidate and greatly simplify your complicated legacy infrastructure with NetApp's unified architecture, which offers more flexibility, performance, and capacity in less space and with less management overhead. NetApp partners with leading PACS application vendors to deliver affordable image sharing and archiving with a single, future-proof storage system for all workloads.

The Challenge

With advances in technology, healthcare providers now have access to sophisticated imaging systems that have improved medical diagnostics. Newer digital modalities produce higher resolution and better-quality images that enable more accurate clinical decisions. But this benefit comes at a cost. From MRIs to multi-slice CTs, tomosynthesis, cardiac imaging, and more, imaging data is growing at a staggering rate.

Existing storage infrastructures are challenged by the growing number of departments that create imaging objects. The introduction of nontraditional imaging and the requirements of managing larger imaging studies are affecting the ability to share data between remote facilities, meet retention guidelines, and recover from outages without sacrificing accessibility or availability, both of which are crucial for efficient operation and effective patient care.

The NetApp Solution

NetApp offers fast, simple, scalable, and reliable data storage and management—the ideal match for vendors' PACS systems. NetApp is validated with the PACS providers, and together they deliver a complete enterprise imaging solution. You receive a superior image management system and a cost-effective, easy-to-maintain data storage component that lowers your total cost of ownership and enhances your profitability.

Make Better Decisions for You and Your Patients

The NetApp Data Fabric vision for data management extends from the smallest departmental storage array to enterprise hybrid cloud strategies that support and optimize your PACS operations through your future digital and cloud transitions. Embrace the cloud on your terms, integrating the benefits of both on-premises and public cloud environments. The Data Fabric enabled by NetApp takes the worry and complexity out of managing and maintaining control of clinical data across private and public cloud resources. This control enables healthcare organizations to adhere to internal data security policies, maintain compliance with HIPAA and HITECH requirements, and promote innovation and IT responsiveness. With a Data Fabric enabled by NetApp, you can:

- Choose the mix of private and public cloud services to help provide patients with highly secure and cost-effective services.
- Have the data mobility you need for your data to flow seamlessly to wherever your clinicians need it most—across flash, disk, and private and public clouds.
- Achieve the speed to innovate faster, using fewer resources, to improve patient outcomes.
- Adhere to internal, HIPAA, and HITECH security policies and requirements.

NetApp helps healthcare organizations embrace the cloud on their own terms by integrating on-premises enterprise-class data management and control with the flexibility, speed, and economies of the public cloud. Advances in technology and cloud computing offer key capabilities to help the healthcare industry redesign storage systems to keep pace with the tremendous growth in clinical data.

These advances also help you to do more with tight budgets. The Data Fabric provides the tools to transform patient care, enabling you to securely share, store, and retain critical patient data.

Continuity of Data Access

Always-on access to patient information and easy data retrieval are critical for delivering excellent and timely patient care. To support these needs, healthcare organizations must capture and preserve medical data with integrated backup and archiving of PACS applications. With NetApp FAS and All Flash FAS storage, you can achieve maximum performance and scale—including integrated backup and archiving—without wasting resources or affecting availability. Combining reliable, high-performance hardware with the industry-leading NetApp ONTAP operating system helps IT seamlessly scale the storage infrastructure to keep pace with increasing patient data requirements.

- **Consolidate images and information for immediate use.** NetApp ONTAP delivers extreme flexibility with the most robust storage efficiency toolset in a single solution, eliminating the need to purchase and integrate disparate components.
- **Protect multisite data with cost-effective archiving.** The simplicity and scalability of NetApp FAS systems mean that you can efficiently store medical images and patient records without sacrificing accessibility or availability and still meet compliance requirements for data retention.
- **Enhance data protection.** Protect against single-path failure with storage resiliency, delivering consistent performance in the event of controller failover.
- **Reduce change control windows.** The NetApp ONTAP operating system enables nondisruptive operations, delivering 99.999% uptime that minimizes both planned and unplanned downtime.

Simplified, Centralized Management

Consolidating multiple terabytes of PACS data and additional hospital records on NetApp storage can considerably reduce the number of servers and storage devices that IT teams must manage. Tight integration between NetApp and PACS vendor solutions simplifies the management of growing imaging data across on-premises and hybrid cloud environments.

To help maximize system use, meet storage SLAs, minimize risks, and boost performance, NetApp OnCommand® management products offer visibility and control across ONTAP storage resources. OnCommand intuitive GUIs, automation, and integration also improve operational efficiencies.

Maintain Compliance with Cost-Effective Archiving

NetApp and its PACS partners help you to comply with HIPAA, Joint Commission, and European Union Directive requirements to protect your stored patient images and other records. We help you meet state, federal, and county mandates for disaster recovery, security, and retention. NetApp FAS systems efficiently store medical images and patient records without sacrificing accessibility or availability and still meet compliance requirements for data retention and security.

High-Performance, Disk-Based Data Retention

NetApp SnapLock® compliance software helps meet government standards for retaining, protecting, and accessing regulated and reference data with a flexible, integrated, and cost-effective solution. SnapLock software helps you to comply with records retention regulations by creating nonrewritable, nonerasable volumes to prevent files from being altered or deleted before a predetermined retention date.

“Access to information from our PACS is critical for ongoing patient care. The partnership between NetApp and Agfa Healthcare—along with their demonstrated ability to work together—increased our confidence in the overall solution.”

Art Duncan, End-User Computing
UNC Hospitals

Enterprise Imaging Strategy

Grow beyond your PACS solutions with a fully integrated enterprise imaging strategy that neutralizes the need for multiple storage silos, backup solutions, and EMR integrations. NetApp partners with the major vendor-neutral archive companies, enabling you to create a central EMR integrated repository for both traditional and nontraditional multi-ology medical images. Create an enterprise imaging strategy that enables data management solutions and infrastructure efficiencies to drive cost savings across the organization.

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation, and optimize their operations. For more information, visit www.netapp.com. #DataDriven