

Brochure

Conquer imaging data

HP Converged Medical Infrastructure and GE Healthcare



Deliver high-quality care that improves patient outcomes

Even as technology rapidly changes, the primary objective for all healthcare providers remains the same: deliver high-quality care that improves patient outcomes. To meet that goal, today's healthcare professionals rely on Picture Archiving and Communication Systems (PACS) to provide fast and easy access to complete, up-to-date patient data at the point of care.

Customers can be confident that with HP and GE Healthcare solutions they can:

- Manage massive volumes of medical image data
- Immediately access and retrieve images, wherever they are stored
- Securely store sensitive patient images and test results, helping to support compliance
- Employ tiered storage technologies to drive down costs at every stage of the information lifecycle

But as the volume of patient records and image files continue to grow, legacy systems struggle to keep pace. The latest research from the Enterprise Strategy Group states that in three to four years, we will store four times as much data as we do today—which equates to nearly 200,000 petabytes. Comprised of information silos with limited accessibility, aging systems fail to deliver the right patient records at the right time, which hinders patient care. For today's healthcare providers dealing with ever-increasing volumes of patient medical images, this is an explosive data challenge.

As leaders in the healthcare industry, HP and GE Healthcare clearly understand this problem. To overcome it, we worked together to develop an advanced solution—GE Healthcare Centricity PACS and Centricity Enterprise Archive, running on HP Converged Medical Infrastructure. Using highly efficient, industry-standard components, the HP and GE Healthcare solution creates a flexible Digital Imaging and Communications in Medicine (DICOM) solution for secure and highly scalable long-term storage.

HP and GE Healthcare – a trusted, time-tested strategic partnership

For more than 20 years, HP and GE Healthcare have worked together to foster a more holistic, patient-centric healthcare system—one that significantly boosts efficiency and reliability. By pooling the considerable resources and expertise of two Fortune 100 companies, HP and GE Healthcare deliver a world-class combination of price, performance, and capability. In fact, GE Healthcare announced a key performance milestone when they reached 20 billion cumulative transactions with HP systems.

By continually investing in our partnership, HP and GE Healthcare ensure that our joint solutions are validated on HP infrastructure, including HP StoreAll Storage Systems, HP 3PAR StoreServ Storage Systems, HP EVA Storage Systems, HP networking, and HP ProLiant servers.

HP and GE Healthcare solutions are available in configurations that meet the needs of hospitals of all sizes. Built on modular HP Converged Medical Infrastructure components, you can start wherever you are today, and seamlessly grow as your needs change.

HP's industry-leading storage solutions and GE Healthcare Centricity PACS and Centricity Enterprise Archive software help improve efficiency and ultimately enhance patient care by putting easily readable, readily available patient images, test results, and other data in front of the medical professionals at the point of care. This is a vital step toward achieving an integrated healthcare enterprise.

HP and GE Healthcare advantages	Benefits
Integrated solution	Aligns the business value of images and studies with appropriate data retention policies
Scalable	Reduces total cost of ownership by allowing storage to be seamlessly added as needed, with no downtime
High availability for secure image storage	Enables instantaneous, secure image retrieval
Consolidates historical data from multiple sources	Lowers the cost of data storage, and makes data more readily accessible
Flexible, open architecture	<ul style="list-style-type: none">• Embraces multiple deployment options• Works over any public or private IP network• Accommodates unprecedented storage growth and performance

HP and GE Healthcare workflow

An industry leader with more than 30 years of experience serving the unique needs of healthcare providers, HP offers highly reliable solutions that help ensure patient information is always available and secure. As the number one vendor in the healthcare industry, HP develops technologies that ease deployment, management, support, and service of today's medical infrastructure. HP's comprehensive portfolio of scale-out solutions in storage, servers, and networking includes:

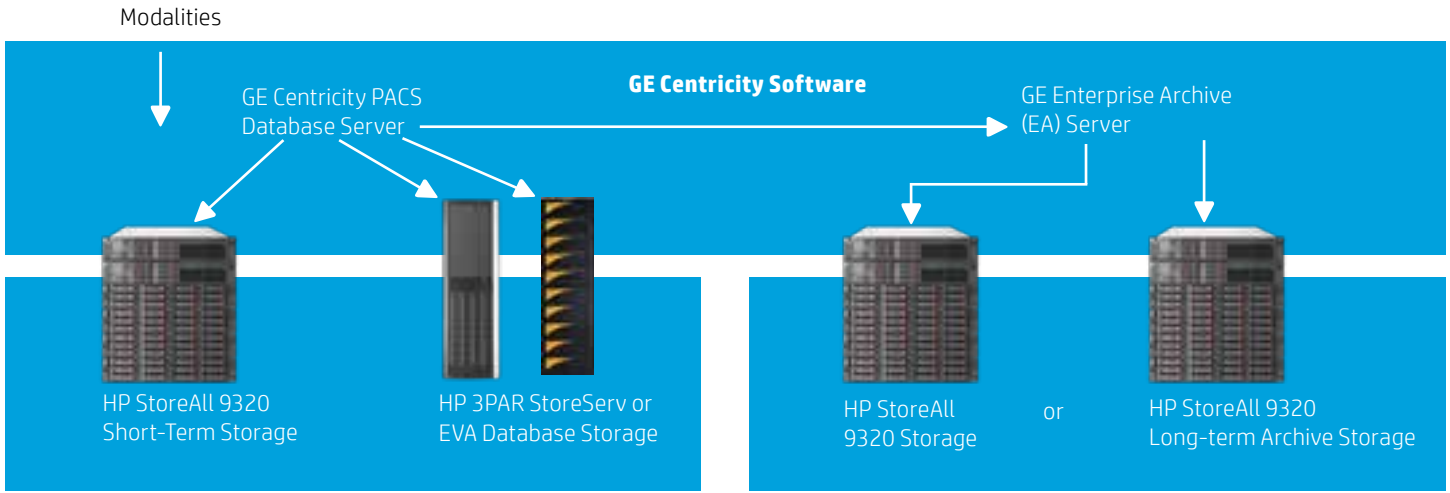
- **HP Converged Medical Infrastructure** – Delivering the data center of the future, today; helping you overcome IT sprawl using innovations that deliver new levels of simplicity, integration, and automation; uniting servers, storage, networking, applications, and power and cooling on one highly efficient platform.
- **HP StoreAll Storage Systems** – HP StoreAll Storage delivers hyperscale scalability without complexity and is ideal for both short-term image storage and long-term image archive with GE Healthcare Centricity PACS. HP StoreAll also manages data automatically to lower cost to support your unstructured data and object storage. HP StoreAll enables you to purchase capacity as needed and the ability to configure new capacity in 40 percent less time than traditional NAS systems. Extremely simple, efficient, and adaptable, HP StoreAll Storage Systems deliver excellent performance and a modular storage infrastructure to accommodate unprecedented growth in medical image storage.
- **HP 3PAR StoreServ Storage Systems** – Delivers 100 percent of the agility and efficiency demanded of an enterprise-class storage system by today's virtual and cloud data centers by leveraging differentiated technologies developed to support data center virtualization. HP 3PAR StoreServ Storage is ideally suited for tier one database and for Short-Term Storage (STS) image caching applications.
- **HP EVA Storage Systems** – High performance database storage for the GE Healthcare Centricity PACS STS environment; HP EVA Storage Systems can also be used to store STS images in addition to the database.
- **HP ProLiant servers** – Industry-standard servers and solutions deliver confidence and reliability; available in rack-mount, tower blade, and scale-out form factors.
- **HP BladeSystem c-Class** – Converged infrastructure in a box simplifies your IT; mix-and-match server, storage, and networking blades all in one compact enclosure.
- **HP networking** – Solutions for the large enterprise or the small office; enable staff to move between locations and always have access to patient information.
- **HP services** – Most comprehensive expertise to align applications, infrastructure, and facilities to your business goals; offering expertise across many areas helps you modernize applications and infrastructure to reduce complexity, align business and IT processes, and maximize efficiency.

HP together with GE Healthcare Centricity PACS and Centricity Enterprise Archive enables workflow and data integration across the enterprise. In addition, the GE Healthcare Centricity Enterprise Archive plans for the unexpected, enabling business continuance with redundancy options for disaster recovery, load balancing, and failover.

Note: The following configurations are examples only. Your actual configuration will vary, depending on your requirements. Consult with your HP or GE Healthcare representative for a formal recommendation that meets your unique needs.

Figure 1: This depicts what a typical GE Centricity Enterprise Archive architecture would look like when deployed on—and integrated with—the HP StoreAll Storage System. As image data flows to the GE Centricity Enterprise Archive system, it is seamlessly stored on the HP StoreAll Storage System.

Simple	Take the worry out with a hassle-free, pre-tested GE Healthcare solution that works out of the box.
Efficient	Optimize short-term image cache versus long-term archive with automatic data movement.
Adaptable	Start small and grow very large with no downtime.



“Penn Medicine’s Hospital of the University of Pennsylvania (HUP) needed a solution for our medical images which is simple, efficient, and adaptable. With GE Healthcare’s Centricity Enterprise Archive to manage the images and HP Converged Medical Infrastructure featuring HP StoreAll Storage to store the images, HUP gets a system which meets our needs today, but prepares us well for future growth in our medical imaging and patient record systems.”

—Tod D. Simons, Deputy Director, Medical Informatics,
Penn Medicine’s Hospital of the University of Pennsylvania (HUP)

“GE Healthcare IT is a staunch proponent of standards-based solutions as we believe this provides long-term sustainable value through interoperability. Penn Medicine’s Hospital of the University of Pennsylvania has been able to optimize the storage of medical images in native DICOM by taking advantage of the breakthrough storage offering from HP without disrupting their current workflow being managed by GE Centricity Enterprise Archive.”

—Lawrence White, Senior Director, Imaging Marketing GE Healthcare





Why choose HP StoreAll Storage for GE Healthcare Centricity Enterprise Archive?

To meet your IT requirements and budget, HP and GE Healthcare offer an extensive portfolio of server and storage solutions. HP storage solutions for the GE Healthcare Centricity Enterprise Archive are pre-validated and scale to accommodate a wide variety of storage and enterprise needs.

The integrated HP and GE Centricity PACS and Enterprise Archive solution is reliable and secure, offering greater data integrity and immediate availability to any user from any location. By using an on-line approach, the HP and GE Healthcare solution cost-effectively captures, stores, accesses, distributes, and displays vital patient information, including PACS images.

With the HP StoreAll Storage System, you can overcome your explosive data growth challenges by providing just-in-time scalability in a consolidated storage environment. HP StoreAll Storage helps you:

- Archive processed data to free up space on the primary tier and make room for new medical images.
- Create a cost-optimized data repository that serves as a reference library for archived projects, helping doctors and medical staff quickly search and retrieve the content they need, when they need it.
- Reduce costs by consuming less energy for power and cooling, using less data center floor space, and reducing licensing fees.

A proven solution for today's healthcare challenges

Today, HP and GE Healthcare solutions operate in virtually every hospital, supporting all IT and application needs, from end-user to data center. Trust HP and GE Healthcare to enhance the availability and protection of your patient images. Improve your workflows and enhance quality of care using advanced storage technologies that expedite retrieval of image files at the point of care. Solve your explosive data growth challenges while complying with government data retention policies. With HP Converged Medical Infrastructure and GE Centricity PACS and Enterprise Archive:

- Doctors and medical staff enjoy faster time-to-first-image when requesting a file from the archive.
- Prior studies and images remain available for fast access, even in the event of a failure in the main data center at the hospital.
- Cost and management of medical fixed content is reduced by using a tiered storage approach that consolidates historical data from multiple sources to lower-cost media.

Service options

HP and GE Healthcare provide a comprehensive array of services, software, servers, storage, and networking solutions. In addition, HP's services expertise can bring all your solutions together and deliver them any way you want.

You can use these services to help keep critical processes Always-On:

- Integrated support
- Server services
- Mission Critical Services
- Service management services
- Multi-vendor support services
- Storage services
- Security, compliance, and continuity services
- Support services

You can also choose from the following storage services:

Storage infrastructure optimization services:

- Storage consolidation
- Data protection and replication
- Storage and data migration
- Storage management

Storage technology services:

- Storage support
- Storage installation and implementation
- Scalable event, technical, and solution services

Related services:

- Data center transformation
- HP CarePack Services for storage
- Virtualization support

Learn more at:

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