

PROTECT

radiology
image files

HP StorageWorks X9720 Extreme Data Storage System and Sectra PACS

Enabling fast retrieval of patient image files to speed workflows and enhance quality of care

Solution brief

As a healthcare organization, protecting precious medical data is of paramount importance—not only to you, but to your patients. You can't afford to lose any information that might help you treat a patient, quicken a diagnosis or engage another medical professional for consultation. And as compliance regulations continue to escalate, protecting patient information takes on a whole new meaning—in the form of litigation when files are lost.

Rating equally high on your list of business challenges is retrieving files. With back-to-back appointments, your radiologists have no time to wait for images to appear on their viewing stations. They need instant retrieval of files from your information archives.

If your organization wrestles with problems like these, we have a proven answer. Sectra PACS (picture archiving and communication system) and HP StorageWorks X9720 Extreme Data Storage Systems.

Foundation for better imaging

With more than 1000 installations worldwide, and supporting more than 50 million radiology exams per year, Sectra PACS is a solution of choice for healthcare facilities. Sectra PACS offers radiologists the perfect reading tool in a data-intense environment. It features an optional, easy-to-use, totally integrated 3D rendering tool. This tool facilitates diagnostics through an improved overview of data, and then visualizes results to the referring physician. In addition, Sectra PACS provides fast transfer of data, regardless of whether the image set contains 60 or 60,000 images.

When this powerful software solution is used in tandem with HP StorageWorks X9720 Storage Systems, the result is a massively scalable solution that offers extreme capacity—from tens of terabytes to multiple petabytes of unstructured data—and very fast retrieval times, so radiologists can access the files they need, when they need them.

One of the modular components in the HP Converged Infrastructure strategy—where servers, storage, management software, networking, power and cooling, security, and services are converged into a shared pool of assets—the HP StorageWorks X9720 Extreme Data Storage System is designed to seamlessly serve, store and scale both data and performance. With built-in virtualization capabilities, the HP StorageWorks X9720 system automatically allocates system resources to meet changing demands. The system optimizes capacity and power consumption during every hour of operation. And it enables you to integrate any standards-based applications within the storage ecosystem—including Sectra PACS.

Offering extreme headroom for growth, you can count on the HP StorageWorks X9720 system to meet your imaging storage needs today and tomorrow.

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Solution in action

HP for healthcare: providing IT solutions that help you focus on your business objectives

- Our broad array of standards-based, high-performance systems and solutions allow medical practitioners to implement the technology they need, when they need it.
- Leading healthcare application vendors choose to integrate with HP.
- HP is present in virtually every hospital, offering a comprehensive portfolio of solutions and services that support all IT and application needs, from end-use to data center.
- HP applies knowledge gained in other industries—such as managing mission-critical applications and environments—to your issues, so you can benefit from others' experiences.

Why choose HP storage for Sectra PACS?

To meet your IT requirements and budget, HP offers an extensive portfolio of Sectra-certified server and storage solutions. HP storage solutions are your best choice for Sectra PACs because they are:

- Complete – built on industry standards, so they can easily integrate with Sectra applications
- Cost-effective – because they optimize capacity and power consumption

After using Sectra PACS for many years, the University Medical Center of El Paso found that its long-term archive solution could no longer keep pace with the center's needs. The legacy archive system—a combination of spinning disks and tape drives—was nearly full, with no additional capacity available. As such, the system required increasingly more time to retrieve files. In some cases, patient appointments had to be rescheduled because doctors could not access the images they needed to prepare for the exams.

To accelerate availability of patient studies, the center's PACS administrators were forced to work during the night, when system demands were low. This way, administrators could retrieve the studies doctors needed, and prepare the files for the next day's appointments. While this modified workflow resulted in greater accessibility of patient studies, it was not a sustainable model; PACS administrators could not continue working around the clock to retrieve prior exams.

In addition, the legacy archive system did not provide disaster recovery capabilities. Any power outage at the main site brought all radiology functions to a standstill. With patients constantly waiting for service, the center needed a new archive solution that ensured zero downtime, no matter what.

To meet their needs for more storage space, faster retrieval of patient studies and proven data recovery, University Medical Center of El Paso turned to HP for help. Working together with Sectra, we designed a future-focused storage solution that not only offered ultra-fast access to files and massive scalability to handle growing volumes of archived files, but also proven disaster recovery capabilities.

Two systems are better than one

Building on the center's existing Sectra PACS solution, we replaced the legacy storage solution with two HP StorageWorks X9720 Storage Systems—one in the main data center at the medical center, and one in a remote disaster recovery site 15 miles away. With 82TB of storage space in each HP StorageWorks X9720 system, the center can not only migrate all existing patient studies created over five years, but also accommodate all current studies being

generated each day. Offering plenty of headroom for growth, the HP StorageWorks X9720 system can easily accommodate image files created by new modalities—which promise greater resolution and larger file size. The HP StorageWorks X9720 system can also manage many more images per study, such as a 32-slice computed tomography scan.

Using synchronous replication offered by Sectra PACS—where all information written to the primary data center is also written to the remote site at the same time—data consistency, disaster recovery and zero downtime are ensured.

Better benefits

With the Sectra and HP StorageWorks X9720 solution, University Medical Center of El Paso realized these important benefits:

- Radiologists enjoy faster time to first image when requesting a file from the archive
- Prior studies are readily available for radiologists to access, even in the event of a failure to the main data center at the hospital
- Overall costs are significantly less than with the legacy archiving solution
- System management is simplified and streamlined

Ready for a better imaging solution?

There's no better time to consider alternatives to your legacy imaging and storage environment. And there's no better time to enhance the protection of your patient image files—using the improved capabilities of modern, virtualization-ready imaging solutions from HP and Sectra. Call your HP sales representative today for an assessment of your storage environment. Discover how upgrading to a modern imaging and storage environment can speed retrieval of patient image files to improve workflows and enhance quality of care.

To learn more about PACS solutions from HP and Sectra, visit www.hp.com/go/storageworks and www.sectra.com.

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