



## Healthcare Customers Gain Critical Performance and Flexibility with DataCore

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Adoption of DataCore's Data Infrastructure  
Platforms Surges among Hospitals and Other  
Healthcare Organizations

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*Avi Popovich, CIO, Tri-State Memorial Hospital*

**H**ealthcare IT departments are challenged every day to deliver life-saving system performance while keeping costs within budget. That's why a growing number of healthcare institutions are deploying [DataCore™ Hyper-converged Virtual SAN](#) and the scalable storage services platform [SANsymphony™](#).

DataCore enables these healthcare organizations to address mission-critical healthcare IT challenges while maximizing the performance, availability and utilization of IT resources – enhancing patient outcomes while keeping costs low.

Ensuring ultra-fast application response times is one of the most critical healthcare IT requirements. Slow response from systems such as X-Rays, MRIs, and CAT Scans, or the inability to access critical patient information, are simply unacceptable-- and can have life-altering consequences. Furthermore, with the ongoing and massive data growth from medical images, including multi-dimensional, 3D and even motion-based image formats, as well as the continuing move to electronic health records, storage requirements and the cost to manage them are also on the rise.

Many new healthcare customers have implemented DataCore-powered solutions to address these challenges, including Comprehensive Cancer Center at the University of Puerto Rico, Tri-State Memorial Hospital, Community Mental Health Authority and Hanover Hospital, among others.

## The Comprehensive Cancer Center at the University of Puerto Rico (CCCUPR)

According to Luis M. Wilkes, director of Information Systems for the Comprehensive Cancer Center at the University of Puerto Rico, “The combination of DataCore and Lenovo has maximized IT infrastructure performance, availability and utilization by delivering a high-availability, software-defined storage solution to support our operations. The DataCore-Lenovo solution ensures that critical health information systems, such as our PACS, are available online and on demand. Going forward we have the flexibility to meet changing demands with DataCore software running on Lenovo and virtualizing, protecting and accelerating our systems and applications.”

The Comprehensive Cancer Center at the University of Puerto Rico is a public corporation that aims to deliver the best research-driven cancer care on the island using a multidisciplinary approach that integrates patient treatment, research, prevention and outreach. CCCUPR is one of the most advanced hospitals and cancer research facilities in North America.

CCCUPR needed a powerful, easy-to-operate and flexible solution to manage its critical Medical Records and the growing oncology imaging requirements from its Picture Archive & Communications System (PACS). Additional requirements included the ability to use existing storage resources. Also, since the hospital and the research center are separated by about two miles, patient information needed to be shared and protected from unplanned events through data protection and disaster recovery.

CCCUPR now has six Lenovo Series x3650 servers running DataCore software at the primary site. For disaster recovery, the solution includes advanced DataCore replication to two additional Lenovo Series x3650 servers at the secondary location. The solution allows the customer to use existing storage, or add new storage without adding compute nodes.

## Tri-State Memorial Hospital

“DataCore allows Tri-State Memorial Hospital to utilize existing storage assets, improve its performance and easily respond to any additional future storage needs without significant expense,” stated Avi Popovich, CIO at Tri-State Memorial Hospital. “DataCore provides us with one storage services platform across the entire infrastructure – maximizing IT infrastructure performance, availability and utilization by virtualizing storage hardware.”

Tri-State Memorial Hospital has deployed DataCore as the foundation for a next-generation data center encompassing Hyper-converged infrastructure. Tri-State Memorial Hospital was looking for a solution to replace its traditional data center architecture. The institution was running out of compute resources and wanted an integrated storage architecture that delivered VDI storage services including ultra-fast performance, the highest availability, and optimal capacity utilization. In particular, Tri-State Memorial Hospital needed assistance accelerating its SQL environment.

DataCore's differentiating factor in meeting the hospital's IT and business objectives was the fact that its Hyper-converged software can be deployed in a redundant manner very efficiently, enabling the hospital to keep its databases running with maximum uptime.

## Why DataCore Hyper-converged Virtual SAN?

DataCore Hyper-converged Virtual SAN, incorporating DataCore's record-breaking Parallel I/O technology, delivers industry-leading I/O performance, productivity and consolidation ratios. As a result, DataCore is able to deliver the world's fastest Hyper-converged performance to run demanding applications such as databases and imaging systems using a fraction of the nodes required by others to run similar workloads. Furthermore, DataCore offers the 'zero-touch' continuous availability needed to keep critical healthcare operations running without disruptions.

A common thread among the many new healthcare organizations that have deployed DataCore over the last twelve months is that all have done so to achieve significant gains in performance, scalability and reliability. DataCore enables users to:

- **Speed Up Applications** – DataCore delivers the fastest response time in the industry. Faster applications (databases, critical applications, VDI, etc.) means more transactions processed in less time, and more data analyzed faster, leading to increased productivity.
- **Scale within Budget** – DataCore ensures the lowest TCO to scale-up or scale-out. This enables users to run more workloads, with better performance and availability, on far fewer servers and utilize the infrastructure already in place for remarkable cost savings, both direct and indirect (less power, cooling and space). Hardware-independent software ensures services live beyond current generation of infrastructure technology and change.
- **Protect Data and Applications** – DataCore provides the highest availability with the fewest nodes. Highly-available infrastructure reduces disruptions to business operations and decreases risk.

The result is greater consolidation savings, better performance and higher availability for critical healthcare applications, databases, and other virtualized applications.

## SANsymphony Software-Defined Storage Adoption Grows

In addition, throughout 2016 numerous healthcare entities deployed DataCore's flagship SANsymphony Software-Defined Storage solution – including Aspirus, Davis Health System, Inc., and Watson Clinic, LLP, among others. These organizations join longstanding DataCore customers such as Arnot Health, Community Health Network, Compugroup Medical, Inc., Englewood Hospital and Medical Center, Inland Empire Health, Kingsbrook Jewish Medical Center, Maimonides Medical Center, New York Presbyterian Hospital, Northeast Orthopedics, and others in realizing important benefits from software-defined storage (SDS) with DataCore SANsymphony.

From a value and cost perspective, DataCore software provides a significant benefit for healthcare organizations in that it is vendor agnostic. With the DataCore solution, users can run any application and any storage and it is instantly super-charged with increased capacity, intelligence, [DataCore™ Parallel I/O -powered](#) performance and a single management interface.

### Aspirus Healthcare System

Aspirus Healthcare System, a non-profit, community-directed health system based in Wausau, WI, has grown quickly over the last several years and as a result, has experienced increasing demands on its IT infrastructure. The IT team needed a way to cost-effectively move some of the workloads off of the existing storage investments – without losing the capabilities, performance and reliability that the team relied upon. DataCore software-defined storage has enabled Aspirus' IT administrators to tackle their most pressing IT challenges.

“DataCore SANsymphony software paired with JetStor storage has integrated into our existing VMware environment and servers seamlessly, while still enabling us to maintain synchronous replication using DataCore to mirror data between sites,” explained Jeremy J. Woller, Senior Systems Engineer – Storage, Aspirus Healthcare System. “As a storage administrator, one of my greatest challenges is migrating data to new storage platforms when the hardware has aged and needs to be replaced. DataCore SANsymphony software allows me to do hardware refreshes as needed with minimal effort and no impact to the users in our environment, maximizing our agility. It is a huge benefit to healthcare organizations of all kinds that DataCore can save time on hardware migrations and allows IT staff to focus efforts on other projects.”

## About DataCore

DataCore, the Data Infrastructure Software company, is the leading provider of Software-Defined Storage and Adaptive Parallel I/O Software – harnessing today’s powerful and cost-efficient server platforms with Parallel I/O to overcome the IT industry’s biggest problem, the I/O bottleneck, in order to deliver unsurpassed performance, hyper-consolidation efficiencies and cost savings. The company’s comprehensive and flexible storage virtualization and hyper-converged virtual SAN solutions free users from the pain of labor-intensive storage management and provide true independence from solutions that cannot offer a hardware agnostic architecture. DataCore's Software-Defined and Parallel I/O powered platforms revolutionize data infrastructure and serve as the cornerstone of the next-generation, software-defined data center – delivering greater value, industry-best performance, availability and simplicity. Visit <http://www.datacore.com> or call (877) 780-5111 for more information.

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