



SUCCESS STORY

Healthcare

JFK MEDICAL CENTER | PROBLEM SOLVED

To support high-quality service to patients and provide rapid, secure caregiver access to patient records and medical images, JFK Medical Center modernized its IT infrastructure and positioned itself for growth with NetApp® technology.

Transforming Delivery of Services by Mobilizing More Than 3,500 Caregivers Across Five Facilities

As a nonprofit healthcare organization in central New Jersey, JFK Medical Center seeks to provide high-quality and compassionate care to its diverse communities. However, the flagship acute-care hospital, with 498 beds, 3,500 employees, and a medical staff of 950, was spending vast amounts of time and money supporting an aging IT infrastructure, further slowed by the burden of burgeoning patient data.

Supports growing clinical data storage,

2PB
and climbing

Improves response time so physicians can

access patient medical records quickly

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NetApp®

BUSINESS BENEFITS

- JFK Medical Center can quickly move, manage, and protect all records from where they are: the primary hospital, the satellite emergency room, rehabilitation and neuroscience centers of excellence, numerous physician practices, several long-term care facilities, and remote radiology offices.
- Caregivers have fast and reliable access and insight into patients' complete health records and can scan and upload additional documentation, results, permissions for treatment, and other key information.
- NetApp will allow JFK Medical Center to extend the total life of its storage hardware by providing a core storage infrastructure that allows incremental replacements rather than requiring a full refresh every five years.
- The EHR system can produce a full legal record whenever necessary, easily pulling together information from disparate sources, including images of documents, medical images, and data.
- Using a single screen, the IT staff can easily monitor all components—servers, storage, backups, and network—and quickly identify where service is needed.

“Our users say the systems are much faster in terms of response time now. And certainly our radiology folks are happy that they can now keep their images online longer and use the storage capacity that we have effectively. And they’re looking to grow.”

Miroslav Belote

Director of Information Technology, Infrastructure, JFK Medical Center

To prepare for rapid projected growth, JFK's IT team fully replaced its legacy data storage system with NetApp technology, including NetApp all-flash systems. As a result of modernizing its infrastructure, JFK simplified management, lowered its costs, and positioned itself for a future where its next-generation data center can give clinicians access to secure patient records at any time, in any location, and on any device.

JFK Medical Center serves a rapidly evolving healthcare landscape in central New Jersey. Its network of affiliated facilities and medical practices includes Johnson Rehabilitation Institute, one of just 16 traumatic brain injury model systems (TBIMSs) sites in the nation, a designation from the Department of Health and Human Services that includes a grant to conduct brain injury research.

To better support its mission and to provide clinicians across the system with quick and seamless access to data from its electronic health record (EHR) system and other computing

resources, JFK replaced an aging IT infrastructure that could not support a growing database. The data is projected to grow to 2PB by the end of 2018, with additional annual growth of 20% to 30%, largely due to storage and retention requirements for medical imaging studies.

“IT is charged with providing an available, stable, and high-quality environment for users to get to the information that they need at any time,” says Miroslav Belote, director of Information Technology, Infrastructure at JFK. “It’s critical that when the docs need that information—the medical record—they can easily get to it reliably and with a good response time.”

JFK worked with NetApp to fully replace its legacy data storage system and modernize its infrastructure with the introduction of NetApp storage solutions, including NetApp flash systems, which simplified overall data and infrastructure management and lowered costs. Its easily scalable architecture also positioned the organization for any amount

of future growth. JFK's IT staff can manage all of its storage devices from a single interface and is developing NetApp SolidFire® and virtual desktop infrastructure (VDI) to allow its users to access clinical information from any device, enabling faster, more responsive care. VDI also enables the IT staff to maintain users' desktops remotely, increasing security, saving time, and lowering overall cost.

FAST ACCESS TO CLINICAL DATA

Now JFK Medical Center can quickly move, manage, and protect all records wherever they are: the primary hospital, the satellite emergency room, rehabilitation and neuroscience centers of excellence, numerous physician practices, several long-term care facilities, and remote radiology offices.

As in most healthcare systems, radiology images are the single biggest "customer" for storage, due

to the size of high-resolution digital images and the increasing use of MRI and CT scans, which generate multiple images for each scan. NetApp's scalability can accommodate a planned upgrade of the picture archiving system. Radiologists can also access images more quickly and keep them online longer.

"Our users say the systems are much faster in terms of response time now," Belote says. "And certainly, our radiology folks are happy that they can now keep their images online longer and use the storage capacity that we have effectively. And they're looking to grow."

ANY DEVICE, ANY TIME

Enabled by its NetApp storage infrastructure, JFK is now pursuing two projects to allow its clinical staff and affiliated physicians flexible access to essential patient information. The first is customizable views for its EHR. In many organizations, clinicians struggle to find what they

need using a "one size fits all" EHR interface. At JFK, VDI allows each clinician to decide how to view and enter data on the hospital's desktop workstations. The second is device-independent EHR access, which will allow clinicians to use their own phones, tablets, or desktop computers to access patient records.

"With our new infrastructure in place," says Belote, "we are able to focus on innovative new ways of delivering exceptional healthcare services."

SOLUTION COMPONENTS

NETAPP PRODUCTS

NetApp AFF A-Series all-flash arrays

NetApp ONTAP® storage virtualization software

SolidFire SSD: SF4805

Protocols: CIFS, ISCSI, FC/FCoE

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