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Global Leader in Software-Defined Storage.

# Delano Regional Medical Center
## Case Study

### NexentaStor Delivers High Performance and Scalability While Leveraging Industry Standard Hardware

California, USA
www.drmc.com
Healthcare

## Summary

**Challenge:** Scale storage capacity and improve performance using existing and standard hardware

**Solution:** NexentaStor High Availability (HA) Cluster

**Platform:** Supermicro

**Use Case:** High Performance and Availability

**Benefits:**
- Minimized costs
- Repurposed existing hardware
- Increased performance
- Simplified management
- Scaled easily

## Business Overview

Known throughout California and beyond, Delano Regional Medical Center (DRMC) is a full-service community and regional teaching hospital. DRMC serves 10 rural central California towns and is committed to providing an exceptional patient experience. With a total of 156 beds, DRMC is a privately owned, not-for-profit hospital with services that include an intensive care unit, a sub-acute care unit, a medical surgical unit, a dedicated surgical pavilion, and an obstetrics/gynecology unit.

As the amount of medical data grew, DRMC needed to bring its outmoded data storage and recovery environment into the 21st century without massive expenditures.

> We replaced NetApp 2050 with Nexenta for VMware View. This gave us the best IOPS solution for the end user experience for VDI, while maintaining budgetary sanity.
>
> **Keith Brennan**
> Network Specialist
> Delano Regional Medical Center

## Challenges

To address its need to cost effectively store massive amounts of data, DRMC had implemented VMware View on NetApp appliances as a virtual desktop infrastructure, but it was beginning to encounter sub-optimal performance, which in turn held back application adoption. At the same time, high upgrade costs were putting the entire VDI project in jeopardy.

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However, IOPS constraints were severely straining the system and significantly slowing performance. Compounding the problem, DRMC was unable to update all the VMs at once; updates to more than three VMs slowed the entire system.

At the same time, the medical center also needed a disaster recovery solution. It wanted to be able to store, access, and easily recover 18TB of data. To address these requirements it determined it needed a high availability cluster – one that came with hassle-free tech support.

When DRMC approached its existing vendor, NetApp, the company suggested a complete forklift upgrade at a cost of roughly $120,000. This was far too expensive, so the center went looking for a Plan B.

## Solution and Benefits

### Solution

After pricing options from several leading legacy system vendors (such as Dell EqualLogic, OpenSolaris, EMC, and others), the center's IT staff chose the NexentaStor High Availability (HA) Cluster.

DRMC particularly liked the fact that NexentaStor ran on industry standard servers, which would allow it to leverage its existing hardware. In addition, NexentaStor helped DRMC overcome the limitations of conventional legacy VDI storage solutions. It dramatically minimized random IOPS and provided support for SSDs for cache write operations, online compression of data, and inline data reduction to minimize the need for storage. Nexenta also provided image management and provisioning with unlimited cloning capabilities and unlimited snapshots for comprehensive back-up and recovery.

### Benefits

With these capabilities from NexentaStor, DRMC has been able to significantly reduce storage costs, leverage existing hardware, improve IT productivity, and scale easily. NexentaStor has reduced DRMC's VDI storage costs by as much as 75 percent compared with traditional legacy storage solutions.

DRMC can now more effectively protect itself from downtime, because NexentaStor HA enables two NexentaStor instances to be configured as an active/active pair, delivering high availability with shared storage, accessible from both appliances.

By choosing the hardware-agnostic NexentaStor solution, DRMC was able to repurpose existing hardware. This meant it only needed to purchase new hardware when it was time to expand its system. NexentaStor also delivered very fast IOPS without breaking the bank.

NexentaStor's ease of use reduced IT staff errors and improved productivity. The system also made it easy for DRMC to scale its storage and  IOPS up or down to cost effectively address business demands.

Toll free: 1-855-639-3682
sales@nexenta.com
nexenta.com

twitter.com/nexenta
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LinkedIn: Nexenta Systems Inc

**Nexenta Systems, Inc.**
451 El Camino Real, Suite 201
Santa Clara, CA 95050

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