



IT Hardware & Software
 Data Center
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CASE STUDY

Brodstone Memorial Hospital

Brodstone Memorial Hospital is a 25-bed, nonprofit critical access hospital located in Superior, Nebraska, a community with a population of around 2,000. Given to the people by Evelene Brodstone Vestey, the highest paid woman executive at the time, it opened January 1, 1928. One of the stipulations at the time it was given was that all board members were to be women, which was later amended to allow no more than two men on the board of six.

The hospital has continued to grow and prosper and provides healthcare services to the people of South Central Nebraska and North Central Kansas. Brodstone was named among the top 100 critical access hospitals in the United States in 2011. Additionally, it was the first hospital in Nebraska to provide 3-D Mammography.

QUICK FACTS

- Name:** Brodstone Memorial Hospital
- Focus:** Nonprofit Acute Care Hospital
- Location:** Superior, Nebraska
- Number of Facilities:** 3
- Staff:** 190 Employees – 7 Medical Staff
- Integration:** VMware vSphere, VMware View for VDI, Single Sign-On
- Areas using IP Pathways Systems:** ER, Pharmacy, All areas of Patient Care including Bedside Charting, All areas within the clinics including exam rooms

SUPPORTING THE EHR PROJECT

Brodstone Memorial Hospital was looking for a methodology to enhance the rollout their Electronic Health Record solution. They had a very aggressive schedule to achieve milestones on the way to meaningful use and were looking for strategies to accomplish this. Partnering with IP Pathways, Brodstone selected a virtualization strategy to aid in the endeavor. Utilizing VMware for both server and desktop virtualization allowed Brodstone Memorial Hospital to simplify the process required for a successful EHR adoption. Tim Hiatt, Director of Network Administration at Brodstone Memorial Hospital stated, "The VDI solution implemented by IP Pathways has made the day-to-day administration of hundreds of desktops in our facility more manageable for our limited staff."

The initial project involved server virtualization utilizing VMware vSphere, NetApp storage and Cisco switching. Brodstone had not invested in virtualization and server virtualization was the first step in the process. This was followed by a desktop virtualization strategy using VMware View as well as a Single Sign-On initiative using Imprivata to enhance workflows for patient care providers. "Imprivata's Single Sign-On solution coupled with VMware View has made day-to-day life easier for all of our providers. The 'Tap and Go' functionality has dramatically cut down on log in times, enabling our providers to increase patient volume safely and effectively," stated Hiatt. This greatly aided in the adoption rate and proficiency of staff in managing patient data and interactions with the EHR.



"Desktop virtualization coupled with Imprivata's Single Sign-On solution has provided a huge leap forward for our organization."



Brodstone Memorial Hospital

BUSINESS OBJECTIVES

- Portability of Electronic Health Record so records may be accessed at the bedside or in the exam room
- Enhancing Clinical Processes
- Improving Patient Safety and Care

THE SOLUTION

- The solution utilizes Dell Zero Clients, VMware (desktop and server virtualization), and Imprivata, powered by NetApp storage.
- Facility utilizes Zero Clients as end points. This, coupled with Imprivata for Single Sign-On and VMware View, allows for the user's desktop to follow them throughout the facility.
- Leveraging Imprivata's 'Tap and Go' Technology allows providers to quickly access their desktop with the touch of a badge as well as securely and quickly disconnect sessions.
- Solution has made hospital staff more efficient with quick log in and log out times, allowing for higher patient throughput.
- Solution has made facility and patient information safer and more secure.

“The solution is only as good as the engineers that deploy it. IP Pathways’ expertise and knowledge surrounding VDI has been the difference maker at our facility, compared to those who have had less than successful experiences tackling desktop virtualization.”

Virtualization also allowed for greater levels of encapsulation of data. This was key in promoting a disaster recovery initiative that was attestable in nature. Because of the stringent requirements of HIPAA HITECH, disaster recovery and continuity of patient record are imperative. VMware and NetApp allowed for the replication and recovery of all critical systems for Brodstone.

BENEFITS OF THE SOLUTION

- Portability of EHR
- Enhanced Clinical Processes
- Improved Patient Safety and Care
- Reduced Environmental Impact
- Impacted Administrative Departments
- Improved Information Sharing

THE IP PATHWAYS ADVANTAGE

As part of a ‘customer first’ approach, IP Pathways’ staff invest a lot of energy in providing a strategy to implement a solution to meet the needs of our customers. Hiatt stated, “The solution is only as good as the engineers that deploy it. IP Pathways’ expertise and knowledge surrounding VDI has been the difference maker at our facility, compared to those who have had less than successful experiences tackling desktop virtualization.”

At IP Pathways, it’s not just training, project planning and implementation that are important, but also supporting the customer after deployment. “Experience is everything. We felt comfortable working with IP Pathways because of their proven track record of success when it comes to successful deployments of Imprivata and VMware View,” Hiatt stated.



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