

FlexPod®

FlexPod Datacenter for MEDITECH EHR Infrastructure

Efficiencies and cost savings for demanding healthcare workloads

The Challenge

Healthcare providers remain under pressure to maximize the benefits of their substantial investments in the industry-leading MEDITECH electronic health records (EHRs). As a mission-critical application, MEDITECH has stringent server and storage infrastructure requirements to promote:

- High availability
- High performance
- Robust data protection, backup, recovery, and business continuity

Integration of NetApp® technology with BridgeHead Software's ISB and IDR solution for MEDITECH helps providers achieve application-consistent recovery points and protect data integrity. And the seamless integration with BridgeHead Software helps providers automate backup and recovery processes across MEDITECH environments.

The Solution

FlexPod—efficiently run MEDITECH software on a modern infrastructure

NetApp and Cisco help healthcare organizations upgrade MEDITECH environments to create a cost-effective, efficient foundation. FlexPod® technology offers a proven data center solution for a flexible, shared infrastructure that easily scales to support growing workload demands and that exceeds performance requirements. Working together, FlexPod and MEDITECH software can help healthcare providers deliver better patient care through increased uptime and responsiveness, greater scalability, and reduced costs. Providers can then focus on their primary goal: delivering safe, high-quality patient care.

By running MEDITECH on the proven FlexPod integrated infrastructure, healthcare organizations can expect to see efficiency and productivity improvements, while lowering capital and operating expenses.

Key Benefits

FlexPod Datacenter with MEDITECH delivers benefits that are specific to the healthcare industry.

Simplified operations and lower costs

- The FlexPod converged infrastructure includes validated designs to speed the deployment of cloud-based data center infrastructures and business-critical applications while reducing costs, complexity, and risk.

Ability to deploy infrastructure more quickly

- Whether it's colocated or in an existing data center, the integrated and tested design of FlexPod Datacenter with MEDITECH enables customers to have the new infrastructure up and running in less time with less effort.



FlexPod delivers benefits to healthcare

By leveraging the FlexPod architecture, healthcare providers can achieve the following benefits:

- **Easily accommodate clinical data growth.** Dynamically scale virtual machine, server, and storage capacity on demand, without traditional limits.
- **Enhance efficiency.** Slash both administration time and TCO by up to 50% with a converged virtualized infrastructure that is easier to manage and that stores data more efficiently while improving performance from MEDITECH software.
- **Reduce risk.** Minimize business disruption with a prevalidated platform that is built on a defined architecture that eliminates deployment guesswork and accommodates ongoing workload optimization.

FlexPod Datacenter

Value of a prevalidated, converged infrastructure

FlexPod, a prevalidated, rigorously tested, converged infrastructure from the strategic partnership of industry leaders Cisco and NetApp is engineered and designed specifically for delivering predictable low-latency system performance and high availability.

The FlexPod solution meets MEDITECH system requirements with a modular, converged, virtualized platform that is efficient, scalable, and cost-effective.

The production platform consists of a Cisco Unified Computing System™ (Cisco UCS®) with Intel Xeon processors, virtualized with VMware ESXi and running Microsoft Windows Server.

Cisco Unified Computing System

A self-integrating, self-aware system, Cisco UCS consists of a single management domain that is interconnected by a unified I/O infrastructure. The system is designed as a single virtual blade chassis that incorporates and scales across multiple blade chassis, rack servers, and racks. The system implements a radically simplified architecture that eliminates the multiple redundant devices that populate traditional blade server chassis and that result in layers of complexity: Ethernet switches, Fibre Channel switches, and chassis management modules. Cisco UCS consists of a redundant pair of Cisco® 6200 Series Fabric Interconnects that provide a single point of management and a single point of control for all I/O traffic.

Cisco Nexus

UCS integrates computing resources with Cisco Nexus® switches and a unified I/O fabric that identifies and handles different types of network traffic, including storage I/O, streamed desktop traffic, management, and access to clinical and business applications. All Cisco UCS servers are stateless. Service profiles automate the build process for each server and simplify failure recovery.

NetApp FAS8000 systems

NetApp FAS8000 systems reduce overall storage costs while delivering the low-latency read and write response times and IOPS that MEDITECH workloads require. FAS8000 systems support both all-flash and hybrid storage configurations to create an optimal storage platform to meet EHR requirements. MEDITECH's certification of both NetApp flash-accelerated FAS8000

systems and NetApp All Flash FAS (AFF8000) systems gives healthcare providers a unified storage architecture that supports the most demanding workloads. NetApp FAS offers features that are extremely useful in MEDITECH environments, simplifying management, increasing availability, and reducing the total amount of storage needed.

FlexPod Cooperative Support

NetApp and Cisco share a long history of collaborative support for FlexPod.

FlexPod Cooperative Support is a partnership between NetApp and Cisco and their technology partners—Microsoft, VMware, and Citrix—to simplify and streamline support for the FlexPod converged infrastructure.

The Cooperative Support Model takes advantage of the combined experience, resources, and technical support expertise of NetApp and Cisco. It provides a streamlined process for identifying and resolving a customer's FlexPod support issue, regardless of where the problem resides.

FlexPod Cooperative Support is especially valuable to healthcare organizations that run business-critical applications such as MEDITECH on the FlexPod converged infrastructure.

Increase the value of MEDITECH investments

A worldwide team of experts is ready to help maximize the value of your MEDITECH EHR investment. Get a proven solution with worldwide installation and support. By adding NetApp storage solutions, your organization can continue to see increased value for years to come.

