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Inspire the Next

Hitachi Virtual Storage Platform and Epic EpicCare EMR

Optimal performance and reliability is essential when working with electronic medical record (EMR) systems. As the industry's only 3-D scaling storage platform, Hitachi Virtual Storage Platform delivers scalability, reliability and performance that is ideal for an Epic environment.

Leverage the Hitachi 3-D Scaling Storage Area Network Platform in a Mission-Critical EMR

Hitachi Vantara delivers on our vision that IT is virtualized, automated, cloud-ready and sustainable to help healthcare organizations transform their IT departments. At the heart of our vision, we offer a virtualized platform for all data with the ability to manage multivendor environments.

Hitachi Virtual Storage Platform is the only 3-D scaling storage platform designed for all data types. It is the only storage architecture that flexibly scales for performance and capacity to optimize the electronic medical record systems. The mobility it gives to data reduces the business impact of adapting to change.

A highly efficient design allows unsurpassed performance and capacity, and the lowest power and cooling requirements.

3-D scaling delivers a storage environment that is reliable, dynamic and open. It is highly reliable, with leading capabilities for data protection and high availability.

It is dynamic, automating data placement and resource addition. It is also open, supporting a wide variety of operating systems, data types, and storage and server environments.
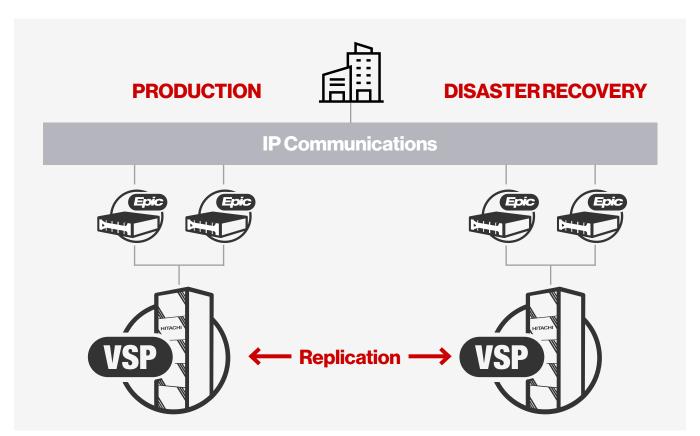

PRODUCTION

DISASTER RECOVERY

IP Communications

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VSP ← Replication → VSP

Fig. 1 Typical Epic Environment with Hitachi Virtual Storage Platform (VSP)

Healthcare Benefits Superior

IT Department and Data Center Efficiency, Manageability and Cost Savings

- Creates a more agile storage infrastructure.
- Increases the productivity of IT staff.
- Defers storage costs.
- Supports scalable management for growing and complex storage environments, using fewer resources.
- Enables the move to a new storage platform with up to 80% less effort and cost compared to the industry average.
- Increases performance and lowers operating cost with automated data placement.
- Achieves up to 48% better power efficiency for more sustainable data centers compared to the previous generation.
- Stores up to 40% more capacity per square foot to increase data center density.
- Lowers operational risk and data loss exposure by optimizing growth of virtual storage with data resilience solutions.
- Offers comprehensive services that optimize your new Virtual Storage Platform for rapid transition to a new environment.
- Supports unique universal replication for open systems and mainframe environments across multiple data centers.
- Provides high availability to satisfy resilience and availability needs of demanding enterprise applications.

Feature Highlights

3-D Scaling

- **Scale up** to meet increasing demands by dynamically adding processors, connectivity and capacity in a single unit. This scalability gives you optimal performance for open systems.
- **Scale out** to meet demands by dynamically combining multiple units into a single logical system with shared resources. Support increased needs in virtualized server environments and ensure safe multitenancy and quality of service through partitioning of cache and ports.
- **Scale deep** to extend the advanced functions of Hitachi Virtual Storage Platform to multivendor storage through virtualization. Offload less-critical data to external tiers; optimize availability of Tier 1 resources. 3-D Management Hitachi Operations Center efficiencies enable 3-D management, which lowers costs and properly manages all data types.
- **Manage up** capabilities unify management and scale to the largest infrastructure deployments.
- **Manage out** features deliver a single management framework with the breadth that can manage storage, servers and the IT infrastructure.
- **Manage deep** with Hitachi Virtual Storage Platform integration for the highest operational efficiency and up to 50% time savings for storage management.

Benefits of Hitachi Virtual Storage Platform and Epic EpicCare EMR Solution

- Hitachi Vantara has developed best practices for configuring Hitachi storage to optimize Epic environments.
- Lab testing has proven that teaming Epic EMR software with Hitachi storage will deliver the low latencies and high performance that the Epic InterSystems Caché database environment requires.
- Hospitals can leverage:
  - A consolidated information infrastructure.
  - Innovative management systems.
  - Business continuity and read/write disaster recovery capabilities.
- Hitachi storage architectures can enable healthcare providers to take full advantage of a patient's longitudinal patient record. It supports each record with unprecedented levels of business continuity and system performance.

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The Hitachi – Epic Relationship

Hitachi has demonstrated a record of successful installs with Epic clients and received positive references from live customers. Epic confirms that Hitachi Vantara has met this requirement and has a track record of success with their customers.

Today, Hitachi Vantara and Epic continue to work together with customers to ensure that the configurations meet Epic's stringent requirements and to test new platforms as they become available. Joint performance testing determines the best configuration guidelines for mutual customers of Epic and Hitachi. These tests have demonstrated 3 important facts:

01
Virtual Storage Platform easily exceeds the Epic performance targets.

02
Virtual Storage Platform can scale Epic performance as it increases to very high IOPS.

03
NVMe disk performance scales to very high IOPS.

ABOUT HITACHI VANTARA

Hitachi Vantara, a wholly-owned subsidiary of Hitachi Ltd., delivers the intelligent data platforms, infrastructure systems, and digital expertise that supports more than 80% of the Fortune 100. To learn how Hitachi Vantara turns businesses from data-rich to data-driven through agile digital processes, products, and experiences, visit hitachivantara.com.

Learn More →

Hitachi Virtual Storage Platform 5000 Series
The most powerful Data platform in the world that will future proof your business and simplify day-to-day management.

Hitachi Vantara

Corporate Headquarters
2535 Augustine Drive
Santa Clara, CA 95054 USA
hitachivantara.com | community.hitachivantara.com

Contact Information
USA: 1-800-446-0744
Global: 1-858-547-4526
hitachivantara.com/contact

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