



## Scale Computing Industry Solution Brief: Healthcare

### Made for the IT Infrastructure Demands of Healthcare

Healthcare organizations face mounting pressure to improve patient outcomes, provide seamless patient experiences, and lower operational costs—all while managing rising regulatory demands and staffing shortages. As digital health initiatives grow, the amount of clinical data generated across the care continuum is increasing exponentially.

Modern healthcare requires infrastructure that can provide low-latency performance for real-time clinical applications, always-on availability for mission-critical systems, and a strong cybersecurity posture to protect against ransomware and data breaches. Yet, many healthcare environments still depend on outdated, complex, and centralized infrastructure systems that were not designed to support distributed sites, edge environments, or small IT teams. These legacy approaches often lead to frequent downtime, inefficient management, and costly workarounds that detract from core clinical priorities.

### Why Scale Computing Platform?

SC//Platform requires less time and expertise to deploy, manage, maintain, and scale out when needed. No other infrastructure solution is easier to use, resulting in significant cost savings. SC//HyperCore™ eliminates the need for traditional IT silos of virtualization software, DR software, servers, and shared storage, replacing these with a fully integrated, highly available platform for running applications. Using patented HyperCore technology, the self-healing software automatically identifies, mitigates, and corrects infrastructure problems in real-time, enabling applications to achieve maximum uptime, even when local IT resources and staff are scarce.

### Meeting Healthcare's Core Infrastructure Challenges

#### Low Latency for Critical Care

In healthcare, milliseconds can make a difference. Whether diagnosing a condition, responding to an emergency, or making decisions during a procedure, clinicians rely on immediate access to data to guide timely, informed actions. Any lag in system performance can introduce risk, not only to patient outcomes but to operational efficiency.

SC//Platform is engineered to process data locally at the edge, where it's generated and needed most. This reduces reliance on remote data centers or cloud round-trips, cutting latency to a minimum. The result is real-time responsiveness, ensuring medical staff can retrieve, update, and act on information without hesitation.

#### Simplicity for Lean IT Teams

Healthcare IT departments often operate with limited staff and resources, especially at satellite clinics, mobile units, or rural facilities. SC//Platform removes the burden of managing complex, multi-vendor environments by consolidating compute, storage, virtualization, and management into a single, easy-to-use system. With intuitive web-based controls, automated storage management, and no third-party hypervisor licensing, even a small team—or a single IT generalist—can manage deployments at scale. Routine tasks, such as creating VMs, running updates, or restoring backups, are streamlined, allowing teams to focus on strategic initiatives that enhance care delivery.

- Deploys in less than an hour
- Create new VMs in minutes

## High Availability Without Complexity

Downtime in healthcare isn't just inconvenient—it can be dangerous. SC//Platform is engineered with built-in high availability, ensuring healthcare applications stay online even during hardware failures or maintenance windows. Critical services continue to run uninterrupted, thanks to features such as automatic failover, redundant hardware components, and intelligent self-healing. Unlike traditional systems that require specialized configurations or third-party tools, SC//Platform delivers true always-on infrastructure with minimal setup and ongoing maintenance.

- Redundant critical hardware components
- Automatic failover of applications from a failed appliance
- Automatic data restriping for failed disks

## Scalability for Growing Demands

Traditionally, infrastructure scale-out has been so challenging that healthcare organizations planned and purchased infrastructure to accommodate growth up to five years in advance. Edge computing and smaller remote sites present new challenges due to restrictions on physical size, power, noise, and manageability.

- Scale-out without downtime
- Seamless scale-out with automated storage configuration
- Mix and match hardware appliances

## Interoperability with Clinical Systems

Healthcare IT infrastructure must do more than keep the lights on—it must integrate seamlessly with the critical applications that power patient care. SC//Platform is designed to support the high-performance and reliable operation of core clinical systems, such as EHRs (e.g., Epic, Cerner), PACS, RIS, LIS, and practice management platforms. Its standards-based architecture ensures compatibility across diverse environments, so IT teams can confidently deploy SC//Platform without disrupting existing clinical workflows. Whether supporting large hospital systems or small specialty clinics, SC//Platform delivers the flexibility and stability needed to meet the demands of modern healthcare software ecosystems.

## Cybersecurity and Ransomware Resilience

With ransomware attacks targeting the healthcare industry more aggressively than any other sector, infrastructure security is no longer optional—it's foundational. SC//Platform incorporates multiple layers of built-in protection to safeguard patient data and ensure business continuity. Role-based access controls and secure API authentication help enforce user-level governance, while immutable snapshots, automated replication, and native backup enable fast and complete recovery in the event of data corruption or a security breach.

- Immutable snapshots and rollback recovery
- Native backup, replication, and failover
- Hardened architecture and reduced attack surface

## Compliance-Ready Infrastructure

Compliance with healthcare regulations, such as HIPAA, HITECH, and GDPR, is non-negotiable, and infrastructure plays a crucial role in maintaining it. SC//Platform helps healthcare organizations meet compliance requirements through features that protect data integrity, control access, and ensure operational continuity. Encrypted data at rest and in transit, centralized logging, high availability, and secure role-based access are built in, not bolted on.

- Encrypted data handling across all workloads
- Audit-friendly logging and access controls
- Resilient infrastructure to support always-on regulated services

### Paris Community Hospital Finds a Cure for IT Problems

Paris Community Hospital was seeking to simplify the management of its IT assets and reduce the time and effort expended on maintaining its environment. With an IT department of four staff members to manage 500 machines, the organization was struggling to provide timely and efficient service to users.

[Get the whole story](#)



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