

ExpressCluster®

NEC Smart Enterprise Software Solution for Healthcare



At a Glance

- Fully automated high availability for critical healthcare applications
- Integrated application, data protection and recovery software solution
- Near-instant recovery from hardware, software and site level failures
- Mitigate system loss from cybersecurity attacks including virus and ransomware
- Ideal for small and midsize hospitals and clinics with minimal IT staff

Overview

Science and technology are constantly evolving, changing the ways we live, work and communicate. Hospitals are becoming more digital and interconnected, enhancing efficiency and collaboration among management, physicians, nurses, billing departments, outside clinics, insurance providers and patients.

Software applications are critical in every aspect of healthcare performance. Continuity and non-disruptive communication with electronic health records (EHRs) and hospital information systems (HIS) are major requirements in medical care facilities to perform daily tasks, such as sending referrals, viewing and editing patient records, check drugs interaction, receiving lab results and monitoring time-sensitive activities. Everything from care collaboration platforms and EHRs to backend business relies on the stability of software applications.

Lack of software application availability can affect performance or result in medical errors. Physicians and nurses are already required to spend a significant amount of time documenting patient visits and reviewing charts. It is not acceptable to wait for systems to recover or to lose critical patient information.

Hospitals and medical facilities, like any other enterprise or service provider, must thrive to achieve cost and quality benchmarks while maximizing best patient outcomes. Management activities, information technology, and non-disruptive operational system drive business performance and ensure continuity of patient care.



Solution

NEC Software Integration and Data Protection for Healthcare

ExpressCluster is an automated software solution designed by NEC to support critical software applications, ensuring high availability and minimize downtime. It works well on common application infrastructures and the most common virtual environments used in healthcare, allowing hospitals, clinics and medical facilities to enhance the systems that are already in place.

Security and performance are key factors in choosing the right solution that better fits each medical facility requirement. Fast, reliable and secure access to EHRs and HISes are extremely important to meet performance and regulatory requirements. ExpressCluster continuously monitors all target hardware, software and network resources, and in case of any resource failure or outage, it provides fully automated recovery of access to critical healthcare applications and data.

ExpressCluster offers best in class application system protection and recovery software solution that includes:

- Synchronous data mirroring for real-time protection and recovery of EHR with no data loss
- Granular monitoring of applications, services and resources for business and caregiving operational systems
- Fully automated failure detection and recovery of patient information without device reconfiguration
- Recovery to standby system in local (LAN) or remote (WAN) network for disaster recovery.

Since ExpressCluster provides fully automated recovery, no manual process or network configuration is required for recovery. Recovery of applications and data enables best recovery-point-objective (RPO) and recovery-time-objective (RTO), which means minimized disruption of critical applications and data. This automation associated with simple and flexible infrastructure significantly reduces total-cost-of-ownership (TCO) while maximizing performance and overall patient experience.

NEC is a leader technology provider and was awarded one of the world's top-50 most innovative organizations. NEC offers a wide range of Smart Enterprise solutions for healthcare, delivering high availability and enabling managers, physicians, and medical personnel to deliver quality, performance and meaningful patient experience.



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