OPEN OPTIONS®
ACCESS TECHNOLOGY

\Orchestrating a brighter world NEC

Smart Redundancy for Access Control - Open Options

At a Glance

- Fast and automated recovery of DNA Fusion applications and data with no manual intervention
- Granular resource monitoring and detection of hardware, software, network and site failures
- Easy to manage solution for DNA Fusion operators without special knowledge or skills
- Flexible deployment support for DNA Fusion running on physical or virtual machines
- Superior cost of ownership with minimal hardware, software and networking requirements

Overview

Protection of people, property and information is a fundamental requirement for all businesses. Fulfilling this responsibility begins with controlling physical access. Knowing who is entering your facilities and when is the first step to safeguarding the heart of every organization – its personnel and critical assets.

Effective security and access control systems require uninterrupted operation. When physical access control systems stop working, the entire operation is at risk. High availability solutions are necessary to ensure these essential systems remain operational and provide uninterrupted coverage.

NEC offers high availability solutions that maintain high availability of physical access control systems with a comprehensive redundancy solution. NEC's ExpressCluster software delivers the high availability and disaster recovery capabilities demanded by critical security and physical access systems for 24/7 real-time monitoring - and the utmost protection. ExpressCluster's integration with DNA Fusion can monitor, protect, and recover granular application resources from all major potential failures for comprehensive application redundancy.

San Jose Airport Locked Out

According to Mineta San Jose International Airport officials, a computer-server problem rendered access doors inoperable for about 45 minutes causing significant delays for travelers. The failure of the access control system meant that doors and alarms from the check-in to the jet-bridge entrances were inoperable. The situation caused a typically busy airport to come to a standstill. It took hours to recover delayed flights, and the snafu was responsible for missed connections and additional aggravation for both travelers and employees.

San Jose Mercury News, August 1, 2014

The Risk and Regret of Downtime

Controlling physical access effectively is mandatory to ensure the safety of the people, the protection of the facility, and the preservation of important assets. The key to a successful access control system is uninterrupted operation. Maintaining high availability of the system ensures that important facilities are not vulnerable to infiltration by unauthorized persons and potential bad actors. Yet, according to the Standish Group research, 72% of mission critical applications experience 9 hours of downtime per year.[1]

Faulty security and access control systems create a number of situations that can be detrimental to security. To begin, all alarm and video monitoring stops leaving the facility vulnerable. Not only are employee credentials unable to be verified, but cardholder badging records cannot be updated. Emergency lockdown control is also disrupted. Real-time integration must be maintained between the access control system and authoritative sources of personnel status, so that changes in status are updated instantly. For sophisticated credentialing systems that span multiple locations, a disruption doesn't affect just one location – it exposes all locations to harmful intrusions.

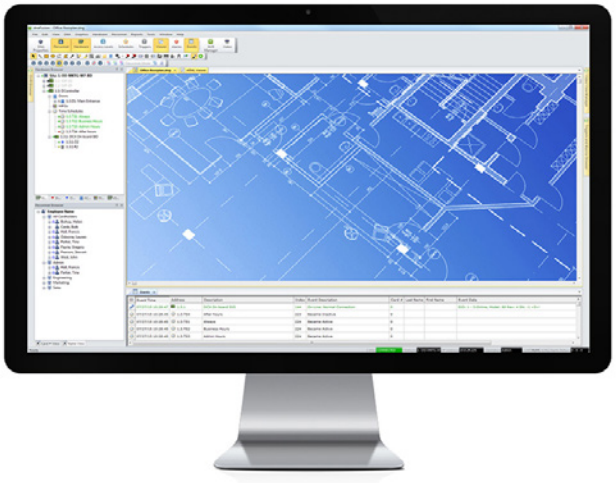
First Line of Defense: High Availability

Clearly, no system can guarantee 100% availability, but ultimately the goal is to achieve the highest possible availability to ensure security systems remain operational. How much downtime can your organization's physical security tolerate each year? To put it in perspective, a system that provides 90% availability experiences more than a month of downtime each year! Think of what your organization can lose with that level of vulnerability.

At the heart of critical security systems are solutions like ExpressCluster that fulfill high availability, disaster recovery and business continuity needs of security applications like DNA Fusion. There are many potential failures and conditions that can cause serious disruption of security applications and consequently overall physical security. ExpressCluster monitors, protects and recovers application resources, data and network connectivity from all major failures.

DNA Fusion is the standard in open platform access control software. It's built using the very latest in software development technology and contains numerous customer-centric features, such as InfoReady design and reporting, global access levels, drag and drop functionality, custom direct commands, and much more. For added convenience, users have the option to manage their security remotely with our Fusion Web and Fusion Mobile applications. DNA Fusion also connects with numerous industry-leading technologies to provide best-of-breed security solutions, including NEC's ExpressCluster.

The integration between DNA Fusion and ExpressCluster offers customers a comprehensive application redundancy solution for high availability and remote disaster recovery of DNA Fusion based physical access control systems.



Affordable & Easy to Use

NEC ExpressCluster software is an affordable redundancy solution that lowers operational costs, and minimizes complexity and deployment. Its unified simple-to-use web-based management ensures easy monitoring, configuration and testing. ExpressCluster offers a low solution cost with support for industry standard hardware and network infrastructure and economical standard application, OS and virtualization software.

[1] *Big Bang* Boom, The Standish Group International, Inc., 2014

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