NetApp Video Surveillance Solution for Correctional Facilities

BACKGROUND

When you think of high-security environments, correctional facilities should be among the first things that come to mind. Correctional facilities are designed and operated with two top priorities: containment and safety. Video surveillance plays an important role in both. Correctional facilities depend on nonstop, real-time access to high-resolution surveillance video to ensure the safety of both inmates and staff. They deploy hundreds or even thousands of cameras throughout a facility to cover every possible angle. A single blind spot or a dropped frame could compromise the safety of the entire facility.

THE CHALLENGE

As correctional facilities migrate toward using high-resolution cameras exclusively, they are challenged to find a data storage system that can keep up. Facilities with hundreds or thousands of high-resolution cameras recording 24/7 require a tremendous amount of data storage. Traditionally, correctional facilities have relied on outdated white-box digital video recorders (DVRs) as their primary storage solution, which can be complex to manage and may compromise safety.

Although a facility may have fully upgraded to high-resolution cameras, a traditional DVR system may not be able to ingest the data at the same rate the cameras are generating it. Infrastructure limitations result in dropped frames and reduced video image quality. As DVRs reach their data capacity limits, they also lose reliability. Deploying additional DVR units to meet capacity demands results in a system that is overly complex and difficult to manage. When this happens, security staff have to spend more time managing the surveillance infrastructure and less time keeping an eye out for security threats.

THE SOLUTION

The NetApp video surveillance storage solution is designed to address complex data management needs, providing enterprise-grade resiliency for over 1 million of the world's most demanding video surveillance environments. The solution offers superior reliability, speed, and ease of use in a high-density, space-efficient system that is easy to scale. Our partnerships with leading video systems integrators and video management software providers make it easy to extract greater value from video data by using intelligent video security analytics. Running your video surveillance systems on NetApp® E-Series storage systems allows you to maintain data integrity, lower your TCO, and maximize the return on your security investment.

UNPRECEDENTED RELIABILITY

Correctional facilities often find themselves defending against any number of lawsuits from inmates, both justified and frivolous. Having nonstop, high-quality video surveillance footage allows correctional facilities to quickly shut down frivolous lawsuits, saving untold time and money.

One correctional facility reported spending more than $8 million annually defending against litigation attempts. After upgrading their video surveillance solution with NetApp storage, they reduced their legal costs to $2.5 million per year. When missing a fraction of a second can cost you millions, you can't afford to compromise on your storage solution.

NetApp E-Series storage is backed by more than 30 years of developmental refinement, putting it at the forefront of reliability among data storage solutions. In the event of a drive failure, E-Series Dynamic Disk Pool technology rebalances data across the remaining drives, dramatically reducing your risk of data loss. E-Series systems deliver 99.999% reliability, so you can be confident that your video storage solution will work when you need it most.

HIGH-SPEED STORAGE FOR HIGH-RES VIDEO

The NetApp video surveillance storage solution is designed for high throughput and low latency, so that correctional facilities can maintain high-quality image recording 24/7. This allows your security personnel to better monitor the safety of staff and inmates and protect against fraudulent claims.

SIMPLE DEPLOYMENT AND SUPPORT

Unlike many off-the-shelf video surveillance storage solutions, the NetApp solution is simple to deploy and easy to use. Therefore correctional facilities can expand their surveillance infrastructure without the need for more highly trained IT staff.

The E-Series modular design allows you to scale performance and capacity at any time, without disruptions or complex migrations. With proactive monitoring, automated issue resolution, and worldwide support, your team can spend less time managing storage and more time keeping inmates and staff safe.

SEAMLESS SCALABILITY

NetApp's video surveillance storage solution offers true pay-as-you-grow scalability so that you can adjust storage requirements quickly as needs change. E-Series systems combine ultra-dense flash and spinning disk media, giving you the capacity to support up to 4,000 cameras with a single system. Additional storage capacity can be added in any increment, allowing you to adapt to changing circumstances.

THE NETAPP E-SERIES ADVANTAGE

- Achieve greater than 99.999% availability

- Enjoy seamless scalability, with the ability to add capacity in any increment

- Get the speed you need, with a system that can scale to almost 3 times what other products can provide

LOWER TCO

Although traditional network video recorder (NVR) and DVR-based video surveillance storage systems may seem less expensive, replacement and management costs can quickly spiral out of control. The high-throughput needs of a modern video surveillance system can overload white-box storage, resulting in a high rate of failure. This forces IT personnel to spend hours replacing failed drives, eating through any initial savings. These outdated video surveillance products often require specialized IT support and ongoing maintenance, driving up TCO dramatically.

The seamless scalability of E-Series systems means that you never have to buy more storage or rack space than you need, resulting in significant savings in power consumption, cooling costs, and data center fees. In fact, the ultra-high-density architecture and low management costs of E-Series systems have proven to be 18% to 22% more cost effective over a 3-year lifecycle than competitive systems.

MORE INFORMATION

For more information about NetApp video surveillance solution for correctional facilities, go to www.netapp.com/vss.

ABOUT NETAPP

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com. #DataDriven