



NetApp Video Surveillance Storage Solution for Gaming

BACKGROUND

Gaming casinos are leaders in video surveillance. Many are early adopters of cutting-edge video surveillance software and high-resolution cameras. They deploy hundreds of cameras throughout their facilities to capture every possible angle, and they employ dedicated teams of specialists to monitor activity around the clock. And for good reason.

With the amount of money that changes hands on the casino floor, casinos have a lot to lose. They're willing to invest in the most advanced, feature-rich video surveillance solutions to protect their customers and their business. Yet some casinos are so focused on their cameras, they forget about their video storage.

CHALLENGE

Casinos running hundreds of cameras 24/7 need a tremendous amount of storage capacity. To support their extensive video deployments, casinos have traditionally deployed low-cost, white-box digital video recorders (DVRs). But changes in camera technology and the increased need for camera coverage have made this a losing strategy. The more DVRs there are, the harder they are to manage. As DVRs reach their capacity limits, they become less reliable, causing drive failures and downtime.

And that's a problem. A casino that doesn't comply with strict video surveillance regulations could lose its license and face steep penalties. If a camera goes down over a table, the casino must close that table. If multiple cameras go down, they must close the casino floor, incurring hefty fines and millions of dollars in lost revenue.

But the problems with DVRs don't end there. Casinos need cameras with the highest resolution possible to be able to catch the subtle actions of cheaters and thieves and to keep their staff and patrons safe. DVRs simply don't have the speed necessary to ingest data at the same rate that the cameras are generating it. Missing frames or reduced quality due to infrastructure limitations mean that critical pieces of data are lost.

Don't gamble with your video surveillance. Protect your video surveillance investment with enterprise-grade video surveillance storage from NetApp.

SOLUTION OVERVIEW

NetApp's video surveillance storage solution, built on NetApp® E-Series systems, is fast, reliable storage for your security environment, so you can keep your staff and customers safe while avoiding regulatory penalties and lost revenue. E-Series storage has been proven with over 1 million deployments worldwide, providing enterprise-grade resiliency for even the most demanding video surveillance environments. Lower your total cost of ownership with a solution that is simple to use and easy to scale.

ENTERPRISE-GRADE RELIABILITY

White-box video surveillance storage is prone to failure, leaving you open to costly downtime. If a DVR fails and you lose video, you could face massive fines, millions of dollars in lost revenue, and permanent damage to your reputation. Even one minute of lost video could allow a thief to get away with stolen property or your security personnel to lose sight of a suspect.

NetApp's E-Series video surveillance storage solution is a hardened platform with proven 99.999% availability. E-Series storage systems provide high availability with built-in redundancy at the node level. With traditional disk drives, upgrades can be disruptive and drives can take days to rebuild after a failure. The E-Series dynamic disk pool technology dynamically rebalances data across the remaining drives for faster rebuilds, reducing the exposure window for data loss from days to minutes.

HIGH-SPEED STORAGE FOR HIGH-RES VIDEO

To capture full-resolution video, you need storage with high throughput and low latency. Missing frames or diminished quality due to storage limitations could mean that critical pieces of data are permanently lost. A lot can happen in that fraction of a second. You could miss the couple counting cards, the thief pocketing chips, or the altercation at the bar. Not knowing when events like this occur is an unacceptable level of risk for any casino.

E-Series systems have the speed and throughput you need to maintain 24/7 video surveillance, with room to grow. Our entry-level systems can scale to up to 3GBps throughput—almost 3 times what other video surveillance storage systems can provide—to support hundreds or even thousands of cameras. With over 30 years of developmental refinement, E-Series is a proven workhorse, giving you a fast, simple, reliable platform for your most demanding video requirements.

BUSINESS BENEFITS

- Super reliable: Enable 99.9999% storage availability
- Super fast: Get high throughput, low latency for high-resolution video
- Easy to deploy, easy to manage: Spend less time managing storage and more time on security

EASY TO DEPLOY, EASY TO MANAGE

Give your security personnel the freedom to do their jobs instead of spending time managing terabytes of storage. NetApp's video surveillance storage solution makes it easy to move and access data whenever and wherever it's needed. Scale your cameras without worrying about running out of capacity, no matter how high your resolution requirements get.

The E-Series modular storage design means that your security and IT staff can spend less time deploying infrastructure and more time adding value for the business. Proactive monitoring, automated issue resolution, and worldwide support help you identify and fix issues before they can impact your business.

SEAMLESS SCALABILITY

Are you able to support 100% annual growth in video data? If you're using a DVR or a network video recorder (NVR) for your video surveillance solution, there will come a time when you need to add more physical storage boxes to your infrastructure. Don't wait until you're out of space.

E-Series uses ultra-dense flash and spinning disk media to give you more capacity per rack unit than white-box hardware—up to 4PB on one controller. A single E-Series system gives you the capability to support up to 4,000 cameras in an affordable, easy-to-manage system. If you need to expand, you can seamlessly add another E-Series system without having to incur downtime.

REDUCE TCO

On the surface, traditional NVR- or DVR-based video storage solutions may seem like a cost-effective solution, but the more cameras you add, the costlier they become to manage. And it's not just about the costs to own and manage that equipment.

Although they offer a low entry point, off-the-shelf video surveillance storage solutions usually end up costing much more than enterprise-grade equipment over the life of the solution. Cheap, white-box storage has a high rate of failure, so equipment has to be replaced more often, particularly when it's pushed to its limit in a fast-moving gaming environment. Replacing failed or failing drives costs valuable IT person hours that could be spent providing value to the business (to say nothing of the downtime incurred while the systems are undergoing repair).

That downtime can come at a tremendous cost—particularly in a gaming environment. If your cameras are not able to record video, you may have to shut down the casino, which could cost millions in fines and lost revenue and expose you to legal liability.

NetApp E-Series storage gives you optimal price/performance for your video surveillance solution, so you can devote valuable resources to where they can be better used. The E-Series highly reliable drives reduce failure rates and accelerate rebuilds from days to minutes. And with the E-Series industry-leading density and scalability, you never buy more storage or rack space than you need, reducing power, cooling, and data center costs.

MORE INFORMATION

To learn more about NetApp video surveillance solutions for gaming, visit 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