



NetApp Video Surveillance Storage Solution for Event Venues

BACKGROUND

No matter how large or small the venue, wherever people gather, security teams have their work cut out for them. Stadiums, concert halls, convention centers—and all the paths to and from them—must be monitored to ensure public safety. But it's not enough to peek into backpacks or scan pockets with metal detectors. Venues are increasingly relying on video surveillance systems to provide real-time protection and smart security for fans, concertgoers, performers, and staff alike.

THE CHALLENGE

Not all venues are the same. Security teams at a large indoor facility like Madison Square Garden or Staples Center must monitor tens of thousands of fans, as well as overcrowded public transportation and parking services. Outdoor venues such as the Hollywood Bowl must also consider their airspace and keep watch for drones. Smaller events like e-sports tournaments might use a venue only once—and it might be the banquet hall at a small local restaurant or the massive ballroom at a Las Vegas resort.

Video surveillance enhancements like facial and object recognition and body language analysis software are becoming common. But the incredible detail offered by today's multimegapixel cameras creates a mountain of data. If that data can't be processed quickly and stored securely, it loses its value. Data that isn't processed instantly can't prevent an attack. Data that is lost can't ID a suspect.

THE SOLUTION

The NetApp® E-Series video surveillance storage solution is designed to support the challenges faced by security teams at event venues around the world. With an enterprise-grade data storage solution from NetApp, you can deploy as many cameras as your venue needs and add software and capabilities dynamically without compromising the infrastructure. E-Series storage systems give your security teams total confidence that the data will be there when they need it.

NEVER LOSE ACCESS

Security teams at event venues use video surveillance in different ways. Some watch for contraband or dangerous objects and weapons. Some need to identify a specific person—maybe a celebrity stalker or an identified criminal. And if something happens, everyone uses video footage to understand the crime scene. But no one can effectively deploy their strategy if their data can't be accessed exactly when it's needed and retained for as long as the situation or policy dictates.

NetApp E-Series systems provide nonstop reliability with a fault-tolerant design that is proven to deliver greater than 99.999% availability. With best-in-class redundancy and no single point of failure, the E-Series storage solution offers outstanding protection for your video surveillance data.

GET THE SPEED YOU NEED

Modern surveillance cameras capture incredible detail, producing a huge amount of data. To capture and store video at full resolution, you need storage that can ingest data at the same throughput that hundreds of high-resolution cameras are capturing. Real-time analysis of that video data allows security teams to identify threats and to meet the needs of customers almost instantly.

If your storage can't keep up, you could lose valuable video frames. And dropped frames can mean the loss of crucial evidence and compromised safety. E-Series performance is optimized to support any number of video streams simultaneously. It's also capable of up to 1 million IOPS of sustained reads and 9GBps of sustained (and maximum burst) write bandwidth.

EASY DEPLOYMENT AND SUPPORT

A massive venue like Madison Square Garden needs consistent monitoring of its permanent infrastructure. The security detail at a "one-off" event like the Oscars has a different challenge. In either case, ease of deployment is key to a successful video surveillance program. Whatever the size of the venue, security staff can face a steep learning curve as IT requirements become more complex. Particularly with very large deployments, the demand for IT support can quickly spiral out of control.

Unlike other storage systems that require multiple platforms and models to scale, the NetApp E-Series video surveillance storage solution features a modular design that enables organizations of any size to nondisruptively increase performance and capacity without incurring downtime or requiring complex migrations.

The deep resiliency at the foundation of the solution means that you can spend less time managing storage and more time focusing on public safety. If an issue does arise, NetApp's proactive, call-home support accelerates time to resolution.

SEAMLESS SCALABILITY

It's easy to manage retaining data from just a camera or two. But for large event venues or situations where real-time analytics and other software is needed, the relentless pace of data creation can overwhelm unprepared systems. Regardless of the size of your venue, you need a future-proof infrastructure that can handle today's data requirements and easily scale for those of tomorrow. The E-Series modular design offers a granular, building-block approach to growth, so you can quickly scale from 10 cameras to 1,000 as your needs dictate.

LOWER TCO

Because of the increasing number of high-definition cameras and the longer retention times necessary for analytics, data storage can account for a large percentage of the total cost of surveillance camera deployments—even more than other components like cameras, servers, networking, or software. With NetApp technology, you don't have to cut corners when it comes to protecting your data. The NetApp video surveillance storage solution lets you manage your data for as little as \$0.004 per gigabyte per month over 5 years—savings of more than 92% over cloud-based storage.

Managing your data with NetApp storage solutions also means that you own your access—there are no additional fees for downloading, reading, or restoring data, as is common with cloud-based storage. The modular scalability of the NetApp solution makes it truly pay-as-you-grow, eliminating the need to overprovision storage, and maintaining easy, affordable access.

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