



NetApp®



## Solution Brief

# Using Video Capture and Digital Evidence to Improve Public Safety

### KEY BENEFITS

#### Optimized Performance

Delivers massive bandwidth performance and high IOPS to support data-intensive video surveillance applications.

#### Maximum Storage Density

Lowers operational costs with extreme density in small footprint to easily accommodate data growth of surveillance images.

#### High Reliability

Provides law enforcement with continuous access to surveillance videos using a field-proven design that delivers high reliability and 99.999% availability.

#### Robust Protection

Has advanced protection features and extensive diagnostic capabilities that deliver high levels of data integrity.

### Video Drives Need for Dense, Scalable Storage

Law enforcement is tasked with protecting people, property, and reputation. With effectiveness measured in response time to tragedies and natural disasters, these organizations are constantly evaluating tools that will help them become more effective in providing services to their citizens.

Body cameras and in-car video surveillance help law enforcement efforts by documenting criminal acts, increasing officer safety, reducing court time, improving rates of prosecution, and providing an impartial view of events.

With advances in technology, video surveillance IP cameras are getting less costly to acquire and provision and are providing more usable images to apprehend lawbreakers. As a result, agencies are deploying larger camera networks and generating significant volumes of data that can be turned into actionable intelligence. However, today's technology needs an efficient storage infrastructure to support the processing and retention of surveillance images:

1. Higher resolution audio and video dramatically increase the amount of data stored.
2. Increased number of cameras generates significantly more evidence files to store.
3. Lengthy legal and compliance processes require longer retention of evidence.

To address all of these challenges, you need an approach that focuses on storing and managing your video data more efficiently and economically while increasing the availability of your surveillance footage to users across your organization. You also need a flexible infrastructure that can readily scale to keep pace with the evolving needs of your organization. Lastly, you need to

consider a future ready infrastructure that is poised to take advantage of new video capture capabilities as they become available.

### NetApp Law Enforcement Solutions

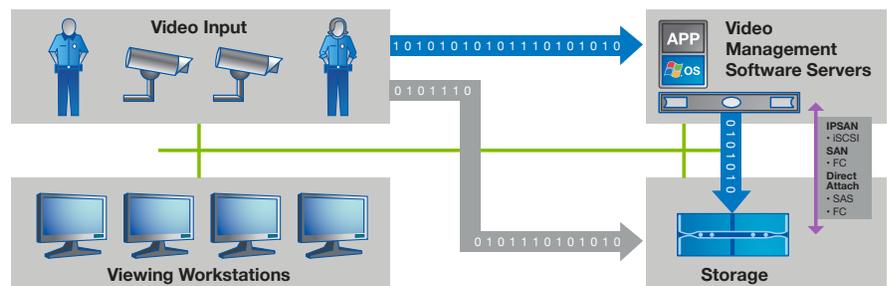
NetApp provides validated reference architecture solutions with leading open platform video management software (VMS) vendors as well as storage building blocks that meet demanding video requirements. NetApp® E-Series storage allows law enforcement to easily access and manage content with the scalability and performance to optimize IP-based systems.

NetApp's digital evidence management solutions help law enforcement agencies:

- Consolidate multiple channels of data to simplify IT integration.
- Provide a centralized, core enterprise. Retrieve and archive data more efficiently

### Improved public safety

With digital evidence management solutions running on high-performing, reliable E-Series storage systems, high-quality HD video can be retrieved quickly and efficiently to improve response time during emergencies.



### Cost-effective scale-out architecture

The modular nature of the E-Series storage systems makes it easy to scale both performance and capacity on an as-needed basis by simply adding more shelves. By centralizing digital evidence storage on NetApp, agencies can reduce server and storage footprint to reduce costs.

### Enhanced credibility

As taxpayer-funded organizations, law enforcement agencies can avoid potential public relations crises relating to lost or inaccessible surveillance footage needed in emergency situations. NetApp solutions reduce risk and enhance credibility in the eyes of citizens.

### Modular Storage Architected for Performance, Density, and Flexibility

Digital evidence solutions using NetApp E-Series storage offer law enforcement a highly scalable repository for video management systems to support high camera counts, megapixel resolutions, high frame rates, and long retention periods. Law enforcement agencies can now buy with confidence, knowing that the NetApp E5400 storage system delivers high-density, performance-optimized storage to easily store and retrieve surveillance and body camera images across a secure and continuously available storage infrastructure.

### Maximum storage density

With the shift to IP-based video surveillance systems, today's camera resolution generates 1TB to 3TB of data per camera per month—forever. The E-Series storage platform delivers leading rack density that supports 1.8PB in each industry-standard 40U 19" rack. This world-class density maximizes space and cooling efficiency in a standard 19" rack, using 40% fewer disk drives and 25% less rack space and power.

### Support for high-bandwidth performance

NetApp E-Series storage provides law enforcement with high-performance access to video content, including HD resolutions and support for digital and analog video installations. Performance is optimized to support any number of video streams simultaneously, with the following read and write throughputs:

- Read throughput. Each E5460 and E2660 system is capable of 4.4GB/sec reads and 2.4GB/sec writes.
- Write throughput. Get up to 50GB/sec reads and up to 30GB/sec writes per single 40U rack .

### Optimization for increased productivity

Using seventh-generation controller technology, NetApp delivers field-proven technology in a validated solution, with over 640,000 shelves installed worldwide. The system hardware delivers 99.999% availability, using redundant components, automated path failover, and online administration to provide high-availability access to video surveillance recordings.

### Partner with the Experts

Now is the time to make storage an enduring component of digital evidence installations. Cost-effective scale-out storage solutions from NetApp are an excellent fit for new installations or when upgrading sites. The flexible design helps reduce storage costs across existing storage infrastructures, with the ability to increase responsiveness to changing needs and the performance to support the most demanding video workloads.

<sup>1</sup> Based on sustained performance of a single E5460 system with 60 drives.

### About NetApp

Leading organizations worldwide count on NetApp for software, systems and services to manage and store their data. Customers value our teamwork, expertise and passion for helping them succeed now and into the future. [www.netapp.com](http://www.netapp.com)

