Solution Brief
NetApp Video Storage Solution
Dense and flexible storage for video surveillance

**KEY FEATURES**

- **Support for High-Bandwidth Surveillance Environments**
  Dependable high-performance bandwidth to support high-definition and megapixel environments

- **High Efficiency Through World-Class Density and Scalability**
  High-density packaging allows support for large-scale capacity and fast expandability

- **Optimized for Increased Productivity**
  Faster read/write performance enables more concurrent video streams per rack unit

- **Extreme Flexibility with Modular Architecture**
  Standard 4U enclosures allow precise scaling and growth over time

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**Safe City Initiatives are Increasing the Need for Big Video Storage**

Increased security concerns, protection from criminals, and terrorism have created massive video surveillance infrastructures, increasing the demand for big video storage. Major cities throughout the world are mounting video surveillance cameras to watch over streets, subways, mass transit, parks, and other public places. These new intelligent video surveillance cameras are capturing more evidence than ever, causing an increase in bandwidth requirements, write speeds, and storage size. The volume and size of media content are greatly expanding as resolution and retention requirements increase.

As a result, governments, retail enterprises, and other public entities are faced with serious challenges with respect to media storage. Traditional storage architectures are not designed for massive amounts of big video content. Purchasing standalone solutions has become inefficient and costly. The NetApp Video Storage solution, combined with leading video management software, provides superior benefits to meet the new security surveillance challenges of data retrieval, retention, and capture.

**NetApp Video Storage Solution**

The NetApp® Video Storage solution provides a complete line of external storage systems designed to meet today’s security challenges by delivering unprecedented capacity, speed, and durability. The E-Series storage system uses a modular architecture that offers a true pay-as-you-grow solution to address the new big video data storage requirements. Leading intelligent video security applications combined with E-Series storage handle the heavy computational workloads and bandwidth-sensitive streaming environments of next-generation video surveillance infrastructures. With them you get:

- Consistent high-performance bandwidth for media-intensive video streaming environments
- Performance-tuned solutions that deliver high-availability access for media content needs
• Superior performance to/from NVR for greater camera support and reduced NVR instances
• The capability to leverage your investment in video cameras and networks and maintain productivity with high-availability storage

The NetApp Video Storage solution offers superior storage to meet the advances in next-generation video and analytic surveillance technology.

Support for High-Bandwidth Surveillance Environments
Superior performance to handle bandwidth-sensitive streaming environments
The NetApp Video Storage solution combines high-performance storage with leading video security management companies’ solutions, allowing customers to develop optimized video infrastructures. IP video security management leaders such as Milestone, Genetec, and OnSSI have teamed with NetApp to offer increased file system optimization for large datasets. With NetApp E-Series storage, users get high-performance access to video content, including HD resolutions, and support for digital and analog video surveillance installations.

• Big bandwidth support. Receive performance optimized to support any number of video streams simultaneously.
• 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 rack1.

High Efficiency Through World-Class Density and Scalability
Manage petabytes of big video content
The NetApp Video Storage solution delivers the highest-density scale-out storage solution to support the unique requirements of large government and commercial video surveillance infrastructures. Using an industry-standard rack configuration, the solution can scale up to dozens of nodes with multiple gigabytes per second of throughput and petabytes of storage. The modular architecture allows nondisruptive scaling of performance and capacity so that applications and data are available when and where they are needed.

• Modular design. Allows growth with minimal additional components, eliminating the need to overconfigure. Supports 1.8PB in each industry-standard 40U 19” rack.
• World-class density. Maximizes space and cooling efficiency in a standard 19” rack. NetApp uses 40% fewer disk drives, 25% less rack space and power.
• Scalability of external storage system. Pay-as-you-grow scalability starting at 180TB enables NVR consolidation and global data access.

Optimized for Increased Productivity
Deploy with confidence
The NetApp Video Storage solution is architected to provide the highest reliability and availability. Using seventh-generation controller technology, NetApp delivers field-proven technology in a tested and validated solution, with over 20 years of firmware development behind it for rapid deployment. By teaming with leading video security management software companies, the Video Storage solution is optimized for managing tens of petabytes of video data, enabling rapid access to and retrieval of content.

• Maximum serviceability and reliability. System hardware delivers 99.999% availability.
• High availability with best-in-class redundancy. Dual redundant controllers, multipathing failover, and dynamic features provide high-availability access to video surveillance recordings.

Partner with the experts
A worldwide team of experts helps you maximize the value of your investment. We work with media organizations to identify critical business drivers and offer extensive training and tools so your teams can better optimize your media operations. NetApp partners with leading technology providers and media software and solution companies to develop and deliver compelling solutions that meet your specific requirements. We then work with you to architect the right solution to meet the most demanding workloads with unmatched efficiency.

About NetApp
NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at www.netapp.com.

Go further, faster®

1Based on sustained performance of a single E5460 system with 60 drives.