WHEN PERFORMANCE MATTERS

The volume, velocity and variety of surveillance data are growing exponentially. The volume of data in a single surveillance project – stationary or body worn - is moving from Terabytes to Petabytes, stressing VMS and storage scaling. Data Velocity is increasing from Megabytes to Gigabytes speeds with a need for millions of I/Os consuming more and more resources. Mixed I/O performance is increasingly critical and many traditional systems do not handle Variety – both large and small files well and cannot handle both structured and unstructured data.

BIG DATA: A PROBLEM AND A VIRTUE

Finding the right balance of control, performance, scalability and availability to keep up with and effectively exploit the data deluge is rewarding and missing the mark means painful and costly upgrades. Performance needs to scale to allow for increasingly demanding playback and / or analytics features. Capacity needs to scale non-disruptively as cameras are added while resolutions and retention periods may increase over time. Availability at scale is tricky – something as simple as slow rebuild times become critical in larger systems – endangering availability and system data integrity.

In addition to net new installations, DDN does a healthy business in replacing underpowered infrastructures that deliver on the initial requirements but fail on scaling. The most frequent culprits when a video surveillance site fails and needs a significant replacement / upgrade include: single controller architectures, silent data corruption, data loss from secondary failures during drive rebuilds, performance impact of rebuilds, alternates to RAID6 data protection and lack of experience scaling into the petabyte or multi-petabyte range.

THE RIGHT APPROACH FOR SECURITY TODAY & TOMORROW

For over 15 years, DataDirect Networks (DDN) has been delivering the world’s fastest storage solutions for data-intensive workflows. DDN has delivered HD quality solutions to over 600 of the world’s largest media organizations. Mid-range to large scale Video Surveillance solutions have been deployed at leading companies and institutions in law enforcement, corrections, public transportation, retail, housing, hotels, casinos, universities, landmarks and more.

Maricopa County Sheriff’s Department selected a multi-petabyte solution from DDN to Improve Security and Speed Time-to-Response at Correctional Facilities with Real-Time Video Surveillance Data Capture, Storage and Processing.

To reduce street crime, The City of Anyang, South Korea backed 1,300 cameras with DDN storage for a solution with unmatched bandwidth and reliability at nearly half the cost of other bids.

To better ensure the physical security of its facilities and the safety of its officers, employees and inmates, The World’s Largest Sheriff’s Department deployed over 5PB of high-density DDN storage to quickly and effectively refute false use-of-force claims and identify misconduct.

To improve passenger safety and reduce IT Costs, The Public Transit Authority of Western Australia deployed 1.5PB of DDN Storage to consolidate over 75 direct attach storage systems which improved capture performance by 12x for 1300 cameras across 70 train stations and 90 rail cars.

DDN.COM | 1.800.837.2298
A GLOBAL INSTALLED BASE WITH ALL MAJOR VMS PROVIDERS

World Leading Density • Scaling to 7 PB in 1 Rack
SFA14K is the industry's fastest storage system, delivering unprecedented levels of performance, scalability and reliability. On-Demand Expansion starts at <100 Terabytes and scales non-disruptively to 10s or 100s of Petabytes whenever needed. SFA14K is well suited for very large video surveillance projects that require dozens of VMS instances and thousands of body-worn or stationary cameras. The SFA14K is a must have for organizations that demand maximum return from their high performance large scale video storage solution.

World Leading Density • 480 TB in Only 4U • Over 3PB on 1/2 a Rack
SFA7700 delivers the storage performance DDN is famous for in a system that starts under 100TB and scales to Petabytes with up to 10GB/s of throughput making it ideal for mid-range video surveillance projects. The SFA7700 was designed for On-Demand Expansion capable of handling many VMS instances with hundreds to thousands of HD quality camera streams. The SFA7700 delivers enterprise level video storage performance and reliability at mid-range pricing.