

DELL EMC SURVEILLANCE SOLUTIONS

Open platform. Scaled storage. Analytics-ready.

ESSENTIALS

TESTED AND PROVEN

Dell EMC teams with industry-leading surveillance vendors to provide proven, end-to-end solutions. Our joint solutions are tested and certified at the Dell EMC Surveillance Validation Labs, renowned for conducting rigorous interoperability testing and optimized storage configuration models.

SIMPLICITY

Dell EMC Surveillance Solutions provide easy plug-and-play simplicity and efficiency—requiring little technical configuration during deployment or operations. Growth is simple when new capabilities are added with automated configuration and load balancing.

OPEN PLATFORM

Move away from black boxes, proprietary appliances, and siloed storage solutions to best-in-class platforms for storage, compute, and networking. Dell EMC's open, data lake architecture and broad portfolio of connectivity options mean no more "rip and replace" due to mismatched surveillance requirements.

SECURITY

Dell EMC Surveillance Solutions provide multiple security features, including a highly resilient architecture, and built-in features that prevent accidental, premature, or malicious alteration of surveillance data.

SURVEILLANCE DATA NEEDS ARE CHANGING

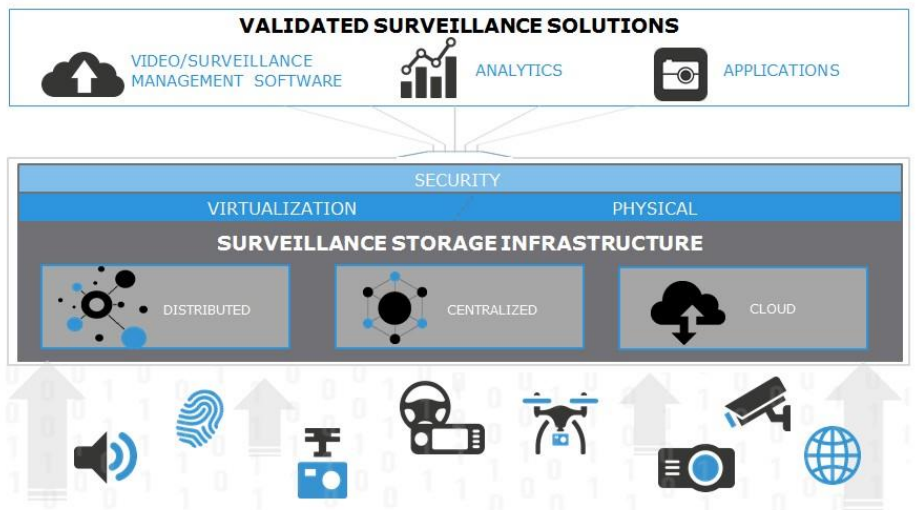
Changes in surveillance technologies are leading to significant increases in data. This growth can be largely attributed to:

- Emergence of new surveillance technologies such as drones, body cameras, license plate readers, audio/video reconnaissance
- Rising HD, 4K, multi-megapixel resolutions due to new requirements for higher-video-quality cameras
- Volume and size of video files is growing exponentially requiring powerful video transport technology for movement
- Increased camera counts and longer video retention times
- Expanding city-wide surveillance systems

This massive surge in data is forcing organizations to shift the way they think about their surveillance data and how they treat their surveillance applications. They are asking for architectures that are open, scalable, and enterprise-ready for management of their current and future disparate data sources.

SURVEILLANCE AND THE DATA LAKE

To address the changing surveillance data needs of organizations all over the world, Dell EMC is introducing a robust portfolio of surveillance solutions built on a data lake architecture. Dell EMC Surveillance Solutions offer an open platform, best-of-breed Dell EMC storage technologies, and an extensive partner ecosystem. Disparate data sources use accelerated video transport technology to feed into the surveillance storage infrastructure layer comprising distributed, centralized, and cloud architectures and enhanced by over 21 tested and validated partner solutions built to simplify surveillance.



BEYOND STORAGE



Virtualization

- #1 Surveillance Virtualization Platform
- Cloud Extension



Security

- Authorized Access Protection
- Audit Trails



Video/ Surveillance Management Software

- Test-to-Fail Philosophy
- Proven Solutions
- Reduced Complexity
- Accelerated Video File Transport



Applications

- Unlocked Data Value
- Simplified Evidence Management



Analytics

- Anomaly Detection
- Enterprise Data Analytics

CONTACT US

To learn more about the Dell EMC Surveillance Solutions, call your Dell EMC sales representative, or visit our website for more information: www.emc.com/videosurveillance.

SURVEILLANCE STORAGE INFRASTRUCTURE

Accelerated Video File Transport Storage is the foundation layer of the data lake architecture. It must support an open platform capable of managing disparate data sets (from multiple devices) while addressing the challenge of scale head-on. It is important to understand the differences among the three major surveillance architectures in order to choose the option most suitable to your organization's requirements:

- Distributed architectures typically support several hundred surveillance devices. They store video and surveillance data locally and then periodically transfer the digital data set to the central platform. For example, a 'satellite' police station may store data locally in office, then periodically transfer it over to headquarters—the centralized location. Distributed architectures often integrate the data with applications and other systems, such as access control and intrusion detection, without engaging a central server. The resulting architecture reduces single points of failure and distributes processing requirements over many, smaller sites.
- Scale is the primary consideration with centralized architectures. Commonly used by police headquarters, schools, Federal/government, airports, and energy companies, for example, centralized surveillance architectures host high camera- or device-count environments (typically thousands of surveillance devices) and are able to support large amounts of surveillance data. Storage must be made efficient and utilization rates must be high to prevent price creep, while migration time must be extremely low to non-existent to seamlessly apply changes in resolution or pixilation.
- Many companies opt to go on-prem for their primary storage, but use cloud architectures for deeper 'cold' storage. Cloud provides an elastic storage platform that easily expands as data volumes grow. For surveillance-specific industries, this means expanding volumes in a centralized private cloud or even leveraging public cloud storage for more rapid capacity expansion. Ultimately, cloud storage can improve storage efficiencies and help reduce the costs associated with storing inactive data on more expensive storage solutions. However, using the cloud for surveillance data involves many different availability, security, and cost decisions. Dell EMC will work with you to determine if private, hybrid, or public cloud is the best approach for your organization's business objectives.

BEYOND STORAGE

Sitting on top of the surveillance storage infrastructure layer are Dell EMC security and virtualization offerings. RSA technologies enable surveillance organizations to leverage the latest in **security** software to protect the data not just where it is stored but across the network as well (web, mobile, and beyond). Although one of the biggest threats to critical data is accidental or malicious deletions of important data, Dell EMC ensures that data is safe from deletion outside of policy, even by an administrator.

Virtualization is the 'enablement player' of the data lake. It creates the open platform and future-proofs investment by giving organizations access to the applications they need at the time they need them. When applied to the surveillance architecture, VMware virtualization technologies reduce physical complexity and points of failure while improving the overall system resiliency.

The process of moving large video files to their associated storage locations is a critical component that has not been overlooked. Built in accelerated file transport technology enhances the power of this solution to ensure the secure, fast, reliable delivery of video files.

Additional Dell EMC Partner solutions include **video/surveillance management software**, **applications**, and **analytics**. These validated, repeatable solutions, which are tested to fail in Dell EMC's Surveillance Validation Labs and then seamlessly integrated into the architecture of your choice, help organizations reduce risk and increase confidence.

Choose Dell EMC Surveillance and build a common platform to store, secure, manage, and analyze all of your surveillance data.