

# Single Scalable Modern File Storage for Video Surveillance

The steady rise in worldwide safety and security concerns for private and public organizations has continued to drive the massive growth in the need for video surveillance. Surveillance devices are used everywhere; in schools, sports venues, concert arenas, government buildings, city streets, hospitals, scientific facilities and laboratories, as well as law enforcement vehicle dashboards and body cameras. With the implementation of more IP video surveillance systems utilizing high definition cameras to obtain the best quality images, video surveillance data will continue to grow, and with this growth, comes unique storage challenges.

## Qumulo with HPE Apollo 4200 Gen10 servers for Video Surveillance

To support the demands of this rapidly evolving market, Qumulo with HPE Apollo 4200 Gen10 Servers delivers a modern, highly scalable file storage solution for use with leading video management systems, such as Milestone XProtect® and Genetec™ Security Center.

Qumulo with HPE storage platform scales across to increase performance and storage requirements where and when needed, provides built-in data protection to support longer retention requirements, fast unified data accessibility, and real-time analytics to help to more quickly see and improve usage efficiencies and to better plan for future growth.

## Building Blocks for Video Surveillance

HPE Apollo 4200 Gen10 servers offer advanced storage density in a 2U form factor. The minimum cluster size is 4-nodes, which presents a single storage pool to the video surveillance software. Adding capacity is as simple as adding a single node or multiple nodes to the cluster, and the new capacity is seen immediately in the same storage pool, with no disruption or downtime.

## Achieve Cost Containment with Standard HPE Apollo 4200 Servers

Qumulo's modern file storage gives video surveillance administrators the ability to scale storage infrastructure while avoiding expensive proprietary hardware. Qumulo runs on any number of HPE Apollo Servers (starting at four nodes) with a world class balance between performance and density, and full world wide support from Qumulo's innovative Customer Success team.

## Optimize Cost and Performance with Flash-first Design

A flash-first hybrid software and hardware architecture optimizes cost and performance. You can simultaneously get the speed benefits of solid state drives (SSD) and the economic advantages of hard disk drives (HDD). In addition, user files can occupy 100 percent of provisioned capacity, unlike only 70 percent or 80 percent, with many other file storage. Qumulo with HPE Apollo 4200 Gen10 Servers are more economical than legacy storage appliances on a capacity basis.



**Hewlett Packard  
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### SOLUTION BENEFITS

- Simple to use and easy to manage modern file storage solution
- Scale to larger storage capacities seamlessly and cost-effectively
- Secure data protection to support longer retention times
- Future-proof infrastructure supports growth to additional geographic locations, or to hybrid cloud environments
- Improve business efficiencies with real-time insight
- Video management systems (VMS) have rapid access to all data
- Simple connectivity through IP Ethernet instead of SAN-based infrastructure
- World-class customer care via Qumulo Customer Success

**Genetec™**

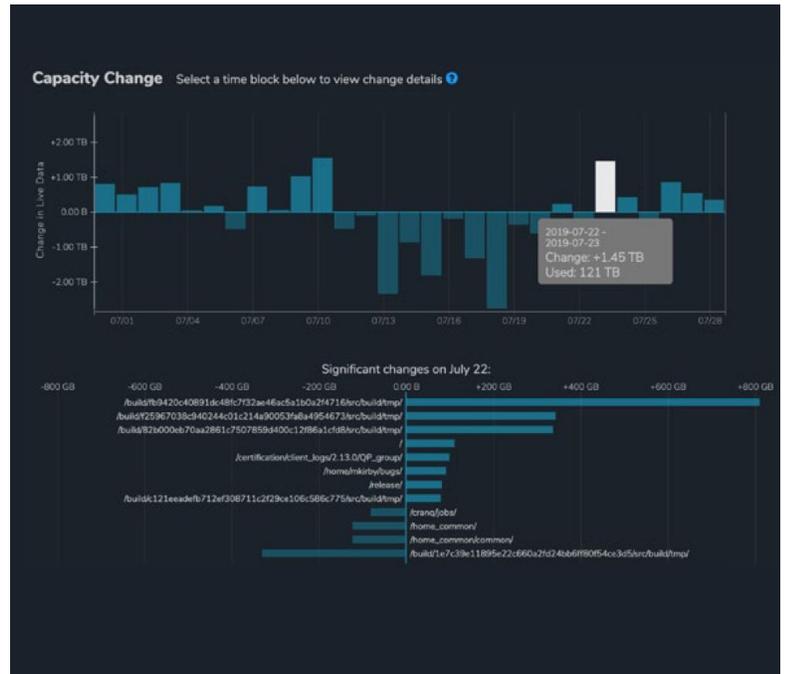
**◆ milestone**

## Unsurpassed Data Reliability and Protection

With the Qumulo file storage, all content is quickly and reliably ingested and stored in an environment that is fully protected from failures and data loss, and readily available for playback, analysis and distribution. Qumulo protects all content using erasure coding. This delivers superior levels of availability and security protection.

## Obtain Real-Time Insight About Data and Storage

Qumulo can store billions of files and is the only file storage software that provides real-time visibility and control for the file system at petabyte scale. Qumulo provides built-in real-time analytics, which not only provide administrators with actionable insights to identify storage usage and capacity trends, but also insights on how the storage and the video management system (VMS) are working together. Administrators can see the throughput increase each time they add a camera to a VMS server, and proactively make changes as needed.



## Total Solution for the Video Surveillance Market

Hundreds or thousands of IP cameras record video footage on a daily basis, which is transferred on an internet protocol network to Qumulo with HPE file storage. Qumulo stores it in an environment that is fully protected from failures and data loss, and enables video assets to be readily available to video management systems (VMS) clients for playback and distribution.

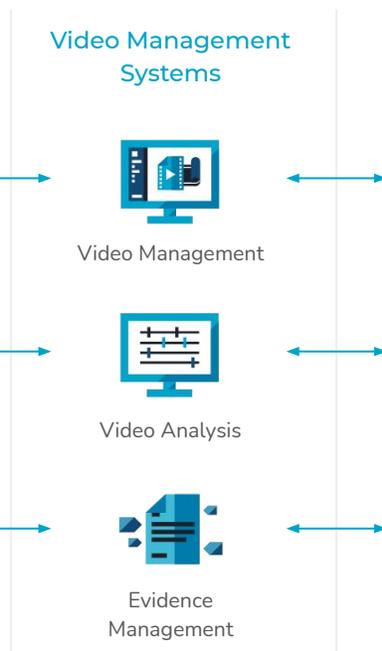
Qumulo with HPE can run in the data center in single or multi-site configurations and can also be fully interoperable in the public cloud. More economical and higher performing than legacy file storage systems, with unsurpassed data reliability and protection.

## Qumulo with HPE Video Surveillance Workflow

### Data Creation



### Processing



### Storage

