

Lattus Object Storage

Extend Your Video Surveillance Data with Object Storage



> DATASHEET

Cost-Effective, High-Performance Storage for Surveillance Infrastructures

Security and law enforcement professionals are facing the challenges created by more cameras, higher resolutions, and increasingly complex analytics. Quantum's solutions for Video Surveillance offer an intelligent, scalable storage platform that provides a simple-to-manage foundation, which can grow under a single file system, designed specifically for video applications. Our intelligent solution leverages different tiers of storage, maintaining transparent and direct access to video content. A single, accessible file system eliminates the need for extra IT help, allowing you to spend less on storage so you can spend more on other surveillance tools in your workflow.

ADDRESSING NEW SURVEILLANCE CHALLENGES

To gain more insight and an increased return on investment from video surveillance data, a storage solution must balance high performance, high capacity, and high retention. Quantum's flexible durability policies enable configuration changes to add more storage or even to expand from single-site to multi-site security and surveillance configurations without disruptive data migration. Upgrading to new storage technologies is as simple as adding new storage nodes—Lattus™ redistributes the data seamlessly with no user impact. Disruptive technology refresh and data migration cycles are now a thing of the past.

FEATURES & BENEFITS

Scale With Storage Needs

Multi-tier storage provides virtually unlimited capacity, with support for billions of files. Scale your storage infrastructure to hundreds of petabytes and extend scalability even further using cloud, object, or tape storage.

Performance

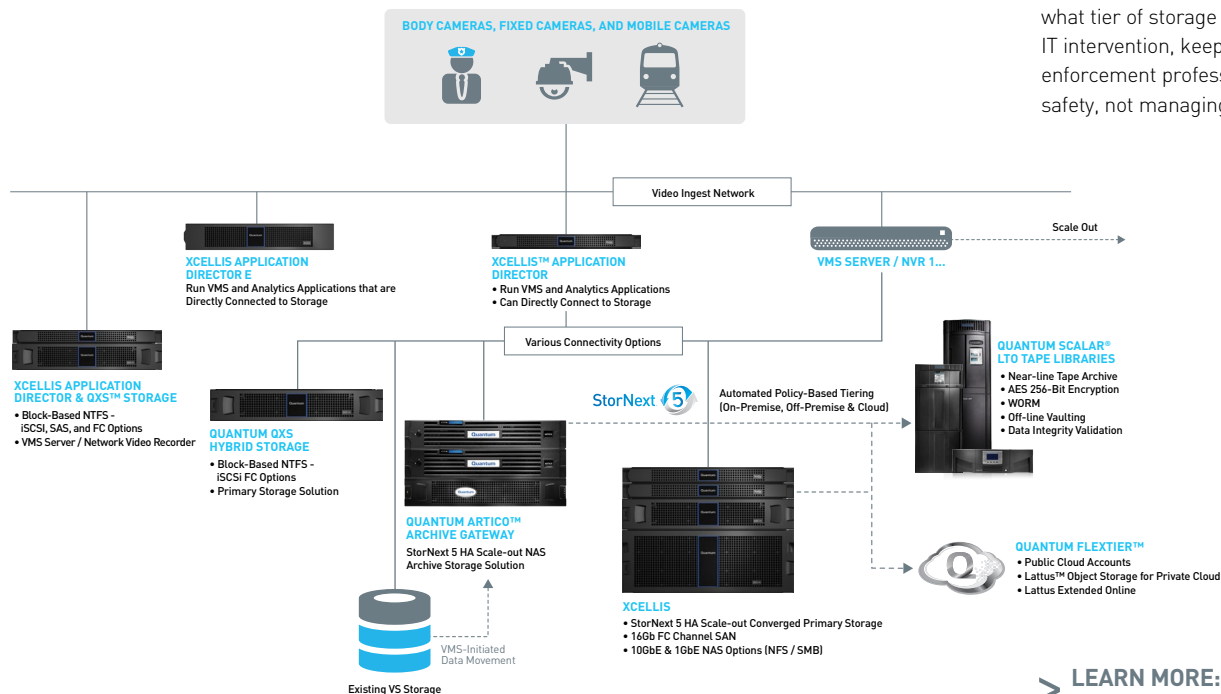
Supports higher resolutions, increased camera & sensor counts, and real-time analytics utilizing Quantum's heritage of managing video-based data.

Low-Cost Capacity

A multi-tier solution delivers total capacity more cost-effectively and provides scalability to grow with requirements, leaving project dollars for other surveillance tools.

Direct Access

Data accessibility is as easy as looking for a document on a C: drive, allowing users to get information when needed, no matter what tier of storage it is on. This minimizes IT intervention, keeping security & law enforcement professionals focused on safety, not managing data.



> **LEARN MORE:**
www.quantum.com/video-surveillance

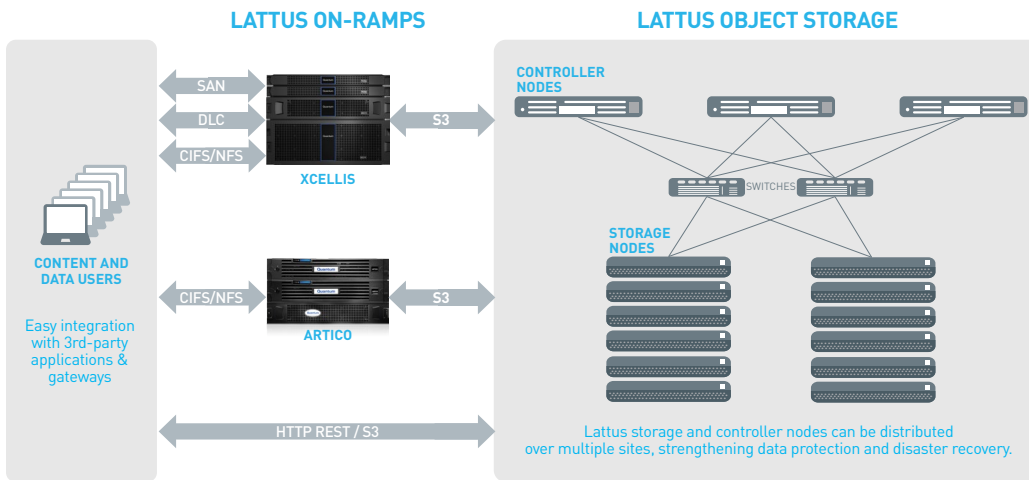


Figure 1 - Lattus on ramp options include StorNext, NAS, and HTTP REST (S3). These on ramps enable direct access to Lattus storage for a wide array of software and partner gateway and application solutions.

LATTUS SCALE-OUT ARCHITECTURE

C5 and C10 Controller Nodes

- Encodes data into objects and disperses them to the storage nodes
- Provides data access via HTTP REST
- 1U chassis

S30 and S50 Storage Nodes

- Extensible data/content storage
- Low power & cooling requirements
- 12 drives per node, with 72TB (S30) and 120TB (S50) raw capacity per node
- Self-healing: Checks for data integrity and repairs bit errors
- High density: Up to 120TB in 1U chassis

Artico

- CIFS and NFS file system access
- 1 billion files on an Artico
- Can also attach to tape and public cloud
- 6U chassis
- 33 or 73TB usable cache

Xcellis

- SAN, DLC, CIFS and NFS file system access
- 1.4 billion files on Xcellis
- Can also attach to tape and public cloud
- Flexible performance and size of cache

LATTUS STARTING CONFIGURATIONS

LATTUS-M: WITH STORNEXT INTEGRATION

Ideal for large-scale environments that include multiple tiers of storage, from primary storage to active archiving to tape. Lattus-M extends StorNext File System environments by migrating files targeted for archive from primary storage to Lattus, while allowing users to retain access directly from the StorNext File System.

LATTUS-D: CLOUD STORAGE FOR DATA PROTECTION

Its native HTTP REST interface is a perfect complement for software applications that want to leverage the power of cloud storage for low-latency, nearline access and long-term retention of unstructured data. By offloading unstructured data from primary storage to Lattus, backup applications no longer need to include that data in the backup process. This improves the efficiency of primary storage and reduces time and network load associated with backup operations. Lattus-D can also be paired with Artico for an easy NAS solution backed by Lattus Object Storage.

	Base Systems			
	Lattus-D, 6-Node	Lattus-D, 20-Node	Lattus-M, 6-Node	Lattus-M, 20-Node
C5 Controllers	3	-	3	-
C10 Controllers	-	3	-	3
S30 or S50 Storage Node	6	20	6	20
Internal Switches	2	2	2	2
Artico	Yes	Yes	-	-
StorNext Storage Manager License Keys	-	-	Yes	Yes

MINIMUM CAPACITY

6-node base: 432TB Raw (283TB usable with 16/4 durability policy)
20-node base: 1.44PB Raw (1PB usable with 20/4 durability policy)

EXTERNAL INTERFACE

2 x 10GbE SFP+ ports per Lattus Controller Node

SECURITY

HTTPS, encryption-at-rest. StorNext in Artico and Xcellis provide Active Directory Access.

MANAGEMENT AND REPORTING

Web-based management and reporting, automated e-mail alerts, SNMP

REDUNDANCY

Controllers, switches, power supplies and cooling on every node, Fountain Erasure Code object storage

ADDITIONAL COMPONENTS TO SCALE CAPACITY, PERFORMANCE & ACCESS

Lattus C10 Controller Nodes (1U) | Lattus C5 Controller Nodes (1U) | Lattus S30 or S50 Storage Nodes (1U) | Lattus-M Feature Keys for S30 or S50 Storage Nodes | Lattus S55 Rack Switches (1U) | Lattus S60 Rack Switches (1U) | Lattus System Switches (1U) | Lattus Interconnect Switches (1U) | Lattus 10GbE SFP for Lattus Switches | Lattus 200GB SSDs for the Lattus C5 and C10 Controller Node | Optional Lattus 45U Rack

BASE SYSTEM RATED CURRENT

6-node base: 11.0 amps @ 220V
20-node base: 22.2 amps @ 220V

BASE SYSTEM MAX POWER

6-node base: 2568 Watts
20-node base: 5144 Watts

BASE SYSTEM NOMINAL POWER

6-node base: 2139 Watts
20-node base: 4281 Watts

INPUT VOLTAGE

200 to 240VAC, 50 to 60Hz

ABOUT QUANTUM

Quantum is a leading expert in scale-out storage, archive, and data protection. The company's data management platform and tiered storage approach provide a unique combination of high performance, low-cost capacity, and easy access that enables security and law enforcement professionals to address the challenges created by more cameras, higher resolutions, and increasingly sophisticated analytics. Learn more at www.quantum.com/video-surveillance.