Best-Fit Video Surveillance Storage Solution for Large-Scale Applications

Seagate Exos X provides reliable, scalable, and cost-effective video storage for Axxon One VMS

Axxon One VMS

Axxon One is infinitely scalable video management software that combines comprehensive support for 10,000+ IP devices, a streamlined user interface, and a cloud-based system management service. Axxon One offers unique value through features like smart forensic search in recorded video and customizable video analytics powered by artificial intelligence.

Seagate Exos X Storage

Seagate Exos X is the datasphere's ultra-dense, intelligent solution for maximum capacity and performance at an exceptionally low TCO.

Exos X enables you to:

- Easily grow your storage with up to 84 drives in a single storage volume.
- Choose between different RAID configurations to enhance performance or increase fault tolerance in the case of drive failure.
- Rebuild your storage volume up to 95% faster using ADAPT technology than when using traditional RAID.
- Work with mixed-type drives such as SSDs and HDDs.

AxxonSoft and Seagate Solution Benefits

The combination of Axxon One VMS and Seagate Exos X mass storage solution forms a solid base for enterprise-scale video surveillance systems comprising hundreds to thousands of cameras of up to 4K resolution. Advanced AxxonSoft's video analytics makes it possible to effectively handle both common and out-of-standard tasks in a variety of target sectors. Seagate Advanced Distributed Autonomic Protection Technology (ADAPT) delivers the highest protection for video data, and Seagate data-at-rest self-encrypting drives (SED) provide best-in-class security.

Examples of application areas: large office buildings, malls, airports, transportations hubs, production and mining facilities, power plants.

Axxon One + Seagate Exos X 5U84 Testing

Seagate and AxxonSoft conduct certification testing of product compatibility to develop powerful, robust, and failsafe solutions for 24/7 video surveillance needs, including AI applications.

Testing configuration outline

Two Axxon One VMS servers connected to one Seagate Exos X 5U84 device through iSCSI interface.

- First configuration: 1,300 cameras (1080p, 25 FPS, H.265, 2.7 Mbps).
- Second configuration: 400 cameras (4K, 25 FPS, H.265, 10 Mbps).

Recording mode: permanent 24/7 recording.

Footage viewing mode: up to 64 cameras simultaneously.

Test results

- Multiple VMS servers work well with one storage device.
- Stable storage for constant recording of 1,300+ cameras.
- Video footage without data corruption.
- Low latency access to recorded video without frame drops.

Conclusion

AxxonSoft and Seagate technologies are highly compatible and provide a plethora of benefits such as:

- High system scaling.
- Streaming optimization.
- Customizable AI video analytics.
- Data redundancy.
- Data encryption.
- High performance, low TCO storage.

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