

Smarter Data Centers: Strengthen Security and Keep Systems Running with Wavestore VMS



Modern data centres demand airtight physical security, audit-ready compliance and continuous availability—from perimeter and dock doors to white-space, cages and MMRs.

Wavestore's open VMS unifies video, access control and analytics in one view. Near-instant playback, multi-camera sync and intuitive search speed verification; encryption, system/user logging and policy-based retention protect evidence; built-in redundancy keeps multi-site estates online.

Enhanced Security, Efficiency & Uptime

Wavestore's Video Management System (VMS) brings together physical security, operational visibility and compliance for data-centre operators. Below are four core gains that strengthen protection, speed response and keep facilities available.

Real-time Entry Control

Integrate VMS with access control for live monitoring and control of doors, mantraps and cages. Facial recognition can support verification and anti-tailgating analytics help flag piggybacking at portals.

Insider-risk Detection

Deep-learning analytics identify loitering, extended dwell and policy violations in critical areas (white-space, MMRs, UPS rooms). Instant review tools accelerate investigation and escalation.

Compliance by Design

Comprehensive system and user logs record configuration changes and operator actions. Encrypted evidence handling, audit trails and retention policies support GDPR and customer obligations.

Resilience and Scale

Wavestore offers end-to-end video data encryption (up to 4096-bit) and SSL/TLS security protocols, alongside a strong GDPR policy. It includes redundancy features at the file structure, hardware, HDD, and server levels to protect critical information from loss.

Addressing Data Centre Sector Challenges

Challenges

Opportunities

Mitigating Physical Threat & Intrusion

High-assurance control at doors, mantraps and cages is vital. Teams need real-time door status, identity verification and reliable tailgating detection.

Integrated Entry Management

Unify VMS with access control for live status, remote actions and video on credential events. Facial verification and anti-tailgating analytics trigger rapid alerts and workflows.

Insider Threat & Hardware Tampering

Loitering, abnormal dwell and unauthorised movement near racks, cross-connects and power rooms indicate insider risk; evidence must align with access logs.

Deep-learning Analytics & Rapid Review

Analytics flag anomalies in real time. Near-instant playback, multi-camera sync and case export speed triage and produce defensible evidence.

Regulatory Compliance & Audit Readiness

Operators must show who accessed what, when—backed by auditable logs, retention policies and secure evidence handling.

Secure Evidence

Wavestore keeps a comprehensive system log and a user log to meticulously document all configuration changes and actions performed by operational staff. Moreover, Wavestore ensures strong compliance with GDPR regulations.

Efficiently Managing Large and Dispersed Estates

Overseeing security across extensive, distributed data centre estates presents logistical and operational challenges.

Scalable and Integrated Security

The scalability of Wavestore's solutions, complemented by Health Monitor and Data Reporter, facilitates the efficient oversight of large-scale systems, ensuring seamless security coordination.

Data Security & Operational Resilience

Evidence must remain protected and accessible through maintenance, unexpected drive failures or outages.

Always-On System Infrastructure

Wavestore's platform offers triple file-system redundancy, N+5 HDD RAID, failover-ready hardware options, and hot-swap server support, ensuring mission-critical video remains available even in the face of disruption.



Solutions for a world we can't yet see

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