

# Securing Critical Infrastructure: Resilience, Compliance & Control with Wavestore VMS



Critical Infrastructure demands the highest levels of security, uptime and compliance. From utilities and energy to water, transport, and telecoms, operators need verifiable situational awareness, long-term evidential retention and a platform that integrates with both legacy and modern systems.

Wavestore's open-platform VMS delivers resilient recording, fast investigation tools and deep integrations—helping teams detect threats early, coordinate responses and prove compliance across complex, distributed estates.

## Perimeter Security & Continuous Operations for Critical Infrastructure

At the core of secure critical infrastructure is adaptability. Wavestore's VMS not only hardens perimeters but streamlines operations – supporting evolving processes, sites, and users without disruption.

### Safe and Secure Locations

Utilizes analytics to monitor aggressive behavior, loitering, and unauthorized access, ensuring comprehensive protection of sensitive areas.

### Centralised Operational Efficiency

Wavestore's open platform unifies video, access control, alarms, and third-party systems in one interface—cutting tool sprawl, streamlining workflows, and lowering costs. Estate-wide health monitoring and reporting further boost uptime and response.

### Evidential Integrity and Compliance

Guarantees the security and privacy of data with 4096-bit encryption, GDPR compliance, lip-synced audio, and video watermarking, enhancing legal and regulatory adherence.

### Expansion & Flexibility Across Multiple Branches

Wavestore's scalable platform offers expansion and flexibility, supporting on-premise, hybrid, and cloud deployments. It enables the seamless integration of multiple areas and cameras while providing a unified operational view.

# Addressing Critical Infrastructure Sector Challenges

## Challenges

## Opportunities

### Protecting Classified and Sensitive Footage

Critical sites must safeguard recorded evidence and associated data while maintaining privacy, retention, and verifiable chain-of-custody across large estates.

### Compliant Video Management

Wavestore provides end-to-end encryption up to 4096-bit, SSL/TLS support, and secure evidence handling aligned with GDPR and government standards – keeping data protected, admissible and tightly controlled.

### Preventing Unauthorised System Access

Preventing unauthorised system access – whether malicious, accidental, or internal – is critical to safeguarding infrastructure and sensitive operations.

### Controlled Authentication & User Permissions

With layered user authentication, complex permissions, IP-based access restrictions and automatic lockouts, Wavestore ensures that only approved personnel can interact with live & recorded video assets.

### Eliminating Operational Vulnerability and Downtime

Infrastructure can't afford outages – uninterrupted recording and monitoring are essential for service delivery, compliance, & evidential integrity.

### 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.

### Efficiently Managing Large and Dispersed Estates

Overseeing security across extensive, distributed infrastructure 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.

### Detecting anomalies and resolving cases fast

Identifying threats early – from hostile behaviour, perimeter breaches and unauthorised movement – is essential to protect personnel, assets and infrastructure.

### Intelligent Analytics and Automated Incident Response

Powered by deep-learning analytics and integration with access control, IDS, ANPR, facial recognition and more, Wavestore enables proactive monitoring and automated alerts using Boolean logic.



Solutions for a world we can't yet see

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