

Protecting Transport Networks: Passenger Safety, Flow Optimisation & Compliance with Wavestore VMS



Transport networks—rail, metro, bus, road and aviation—need wide-area visibility, coordinated response and privacy-ready evidence. With rising passenger volumes and large, dispersed estates.

Wavestore’s open-platform VMS unifies cameras, AI analytics and third-party systems, to deliver resilient recording, rapid incident review and data-driven optimisation across stations, platforms, vehicles, depots and perimeters.

Ensuring Safe Journeys for Passengers & Staff

Wavestore’s VMS unifies cameras, analytics and partner systems to deter crime, manage passenger flow and resolve incidents fast—without disrupting services or compromising privacy. Below are four core gains that strengthen protection, speed response and keep facilities available.

Passenger Safety & Crowd Intelligence

People counting, occupancy thresholds, dwell and directional-flow analytics provide real-time alerts for overcrowding, contraflow, blocked egress and queues—supporting safe movement and interventions.

Efficient Incident Management and Analysis

Offers advanced capabilities for tracking and investigating incidents, aiding in swift and effective resolution.

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.

Privacy & Ethics by Design

End-to-end encryption (up to 4096-bit), SSL/TLS and granular permissions safeguard data. Flexible operating modes and policies support GDPR-aligned access, control and non-discrimination.

Addressing Transport Sector Challenges

Challenges

Opportunities

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.

Passenger Safety in High Activity Environments

Incidents can escalate quickly at platforms, gates and checkpoints. Responders need fast, reliable visibility and evidence.

Behaviour analytics & coordinated response

Deep-learning analytics detect unusual or aggressive behaviour in real time. Coordinated alerts and actions; near-instant playback and multi-camera sync speed investigation and reporting.

Maintaining Data Privacy & Security

Authorities must protect recorded evidence and associated metadata while enforcing privacy, retention and audit requirements.

Privacy-First Security Solutions

End-to-end encryption (up to 4096-bit), SSL/TLS, robust audit trails, and role-based permissions secure sensitive material. Policy-based retention and secure export maintain evidential integrity and simplify compliance documentation.

Detecting anomalies and resolving cases fast

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

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.

Crowd Intelligence & Event Management

Managing people flow, occupancy and staff allocation across dispersed sites is difficult without clear data.

Unveiling Hidden Insights

Deep-learning analytics provide people counting, occupancy, dwell and directional flow to optimise staffing and room use. Dashboards and integrations (e.g., BI tools) support a safe, efficient transport experience.



Solutions for a world we can't yet see

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