DATASHEET

WaveFusion – Unified Security Platform

Built unified from the ground up, **WaveFusion brings identity, video, events, and actions together** so teams see, decide, and act faster – on one event stream with shared identity context and a consistent audit trail.

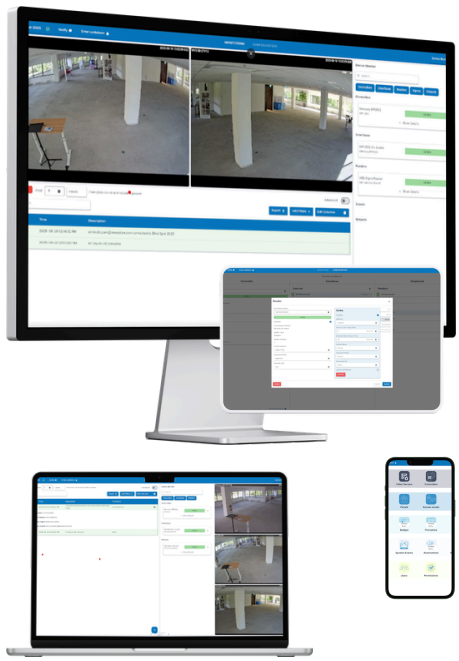
Cut window-hopping, jump from an event to the exact video, and act in the same interface. Automation turns alarms and schedules into guided actions – door control, notifications, escalations – so response is **proactive, not reactive**.

Built on authentic HID/Mercury – reuse your estate where it exists or start new on a **proven, enterprise-grade foundation**. Web browser-based control means no heavy installs.

WaveFusion is designed for **AWS cloud, open API, and subscription-based** – always up to date, with no headaches. With resilience as standard, local decisioning means doors keep working through WAN or cloud outages, and live health monitoring reduces downtime.

Protect investments, scale on your terms and gain real-time visibility across every site.

This is security – **unified**.



Key Benefits

Built on Authentic Mercury Hardware: Our platform is built on authentic Mercury hardware, ensuring you're ready for today and tomorrow. From the latest MP Series controllers to proven LP Series devices, compatibility is seamless. We support a wide range of controllers – all documented in the Wavestore pricelist.

Always-On Security:
With Mercury's local decision-making, doors stay secure and functional even if the network, internet, or data center is offline. Your security remains uninterrupted – because downtime is never an option.

Future-Ready:
We're just getting started. As we move toward release — and beyond — our feature set will keep expanding, ensuring you always have the latest tools at your fingertips.

AWS-Powered Resilience:
Not just "cloud" — AWS Cloud. Benefit from automated load balancing across multiple availability zones, regional hosting to meet compliance requirements, and the global scalability you expect from the world's leading cloud provider.

Built for Reliability, Backed by Experts:
Our partnerships deliver a platform that's not only highly available and secure, but also flexible enough to meet the needs of both security integrators and end users. Backed by Wavestore's expertise, you can count on proactive support and lightning-fast responses when questions arise.

Accessible Anywhere, on Any Device:
Manage your system from any modern browser, on the operating system you prefer. Whether it's Windows, macOS, or Linux, you have full control without extra software or restrictions.

Access Control Specifications

Logon Security
2FA, password policies

Client Encryption
AES 256-bit, TLS 1.2 & TLS 1.3 encryption

Communications Path
IP Client (outbound ports only)

Database Redundancy/HA
Included

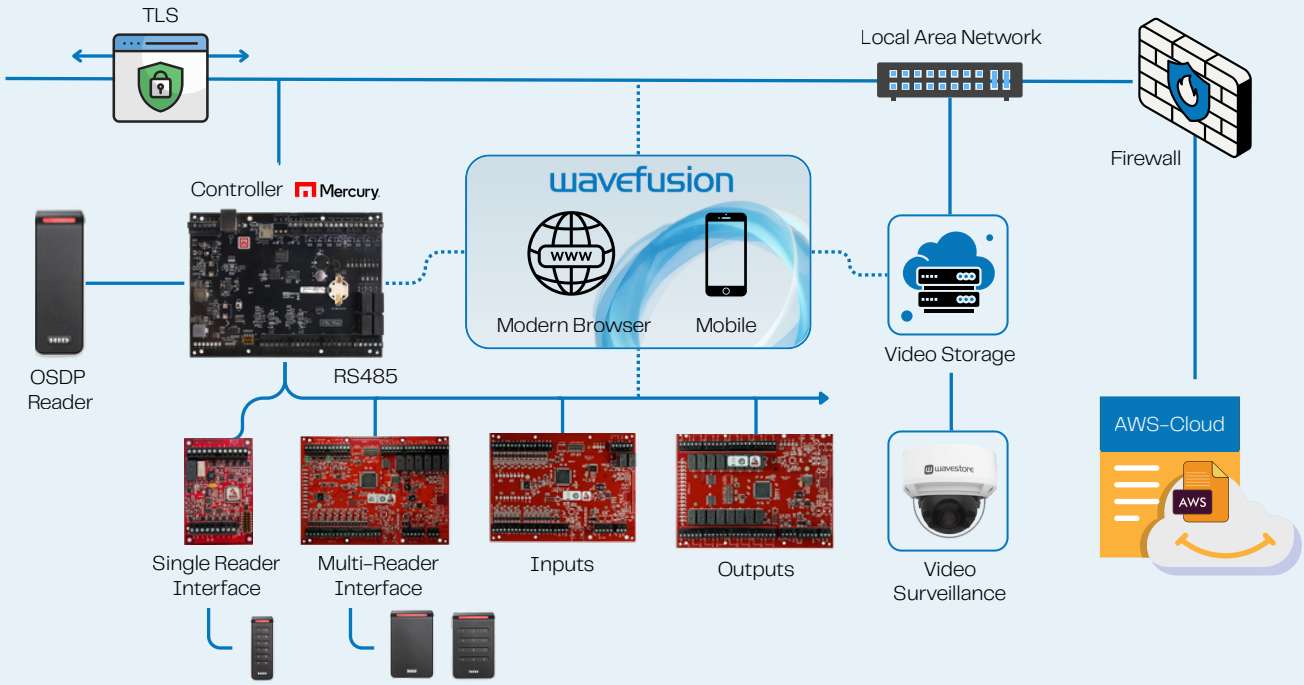
Concurrent Users
Unlimited

Cardholder Capacity
Unlimited (500,000 max/controller)

Custom Attribute Fields
Unlimited

Always-On Security
Optimized for Mercury hardware, online & offline

Architecture



Secure by Design

- **Encryption** – WaveFusion employs the latest encryption standards to ensure the security of your data. TLS 1.3 communications encryption and AES 256-bit database encryption are both leveraged to guarantee your data is secure in transit and at rest.
- **Multi-Factor Authentication** – Multi-factor login protocols provide an increased level of login security when accessing WaveFusion.
- **Cloud High Availability** – Cloud native architecture, multi-server redundancy and load balancing.
- **Single Click Lockdowns** – Initiate single door, building, or entire campus lockdowns with a single click.
- **Data and User Privacy Standards** – From GDPR, CCPA, and HIPAA to SOC2 (via AWS), we are relentless in ensuring that your data is safe and your system is compliant with the latest regulatory, security, and privacy regulations.
- **Automatic Backups** – WaveFusion performs automatic daily system backups, helping to eliminate one of the most common flaws in legacy access control technologies.

Scalable High Performance

- **Open Hardware Platform** – WaveFusion leverages Mercury's hardware platform to give you a true open environment.
- **Flexible Hardware Platform** – The Mercury-based WaveFusion Smart Controller provides an unmatched combination of cost-effectiveness and design agility, allowing for rapid adaptation to market demands.
- **Mass Notification** – Alert employees and visitors of critical information with a click of a button.
- **Tenant Landlord Segmentation** – Segment your overall system for streamlined operations. Segment by building, city, or entire regions.
- **Scalability** – Increase system size or functionality as your system grows. Supports unlimited doors, users, cameras, and cardholders.
- **Restrict Access** – Instantly grant or revoke access from any device.

Access & Video. Unified.

- Merging access control with video, including analytics, unlocks the latent potential of data under one interface.
- Not only simplifying security operations, and enhancing situational awareness, but empowering business improvement from enrolment to customer journey flow, and everything in-between.

Visit wavestore.com/wavefusion for more information.

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