



Vega Systems Inc.

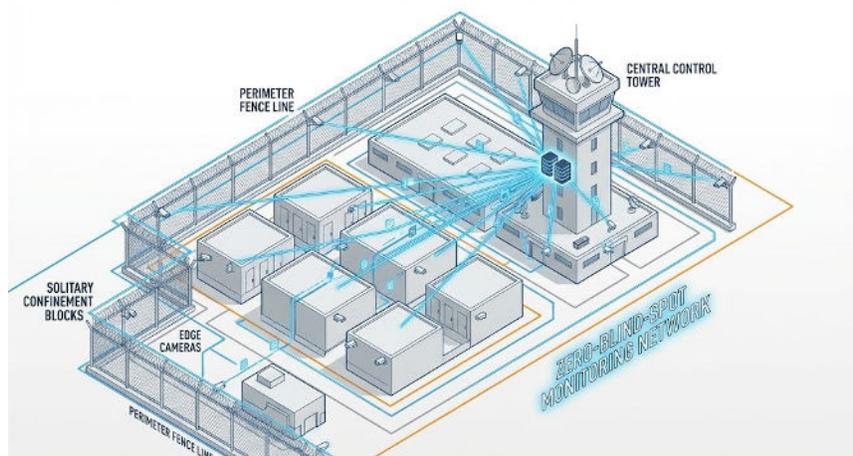
USE CASE DOCUMENT

Corrections

Video Security Resilience for Correctional Facilities

Zero Blind Spots

In Corrections, cameras are life-safety devices. Vega ensures continuous operational visibility for Officer Safety, and PREA compliance.



The Immune System for Video Infrastructure

Version 1.0 | 2026



Introduction

Duty of Care is Mandatory

Prisons and jails operate under intense legal scrutiny. From the perimeter fence to the solitary confinement cell, a loss of video during an incident is not just a technical failure; it is a lawsuit waiting to happen.

Vega Systems builds resilience that helps correctional facilities maintain visibility during outages, failures, and cyber incidents. Our comprehensive product suite addresses every layer of video infrastructure vulnerability, ensuring that critical surveillance remains operational when it matters most.

This document outlines specific use cases in which Vega products deliver mission-critical value to correctional facilities, addressing common challenges faced by security teams, IT departments, and facility administrators.

Vega Product Suite

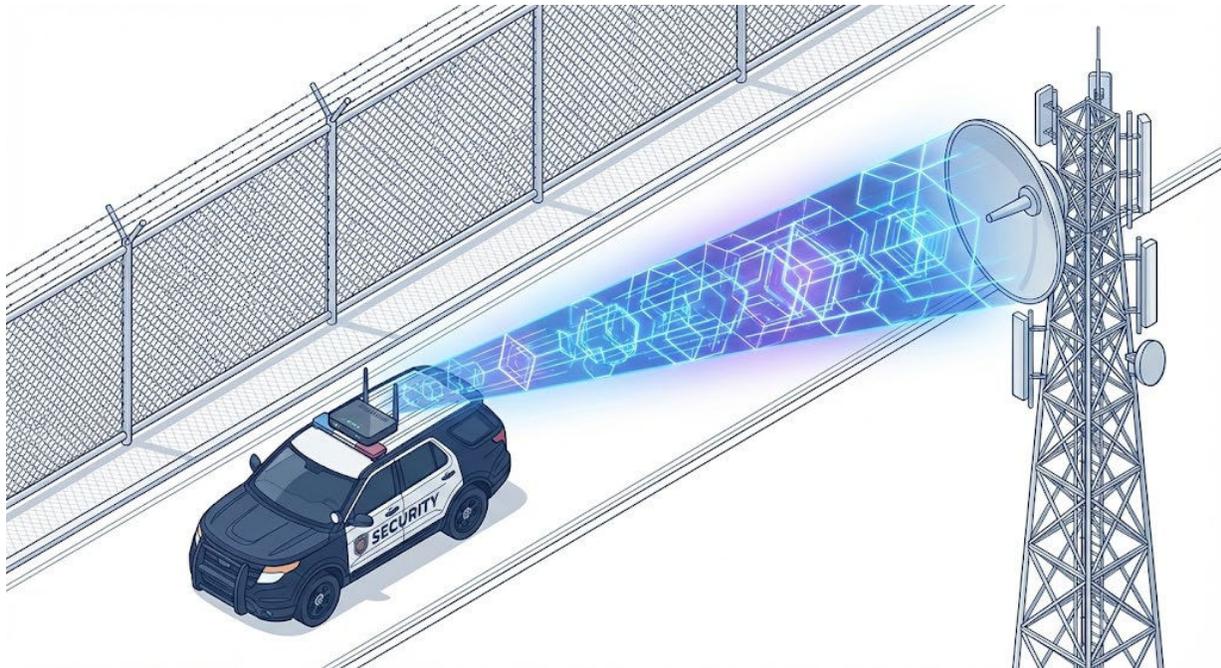
Vega offers a comprehensive suite of products designed to address every aspect of video infrastructure resilience:

Product	Description
RMF	Redundancy Management Framework – Cybersecure active-active redundancy for Milestone XProtect with rapid live video recovery.
SureStream	Client-side failover that maintains live video directly from cameras when VMS servers are unavailable.
Nidhi	Automated media backup and restore – mirrors footage to cloud or SMB storage with intelligent recovery capabilities.
Atlas	Secure edge transport – cellular-optimized video tunneling with zero open ports for mobile and remote assets.
XPort	Content portability and migration – automates XProtect migrations, consolidations, and site mergers.



Use Case 1: Perimeter Patrol Vehicles

Challenge: "The Wi-Fi at the fence line is dead. We can't see the patrol car video when they are furthest from the building."



Product Solution: Atlas

Perimeter security is the first line of defense at any correctional facility. Patrol vehicles continuously monitor fence lines, entry points, and external boundaries, often operating at the property's perimeter where traditional Wi-Fi connectivity becomes unreliable or nonexistent.

Atlas runs directly on the vehicle's cellular router and optimizes video transport over cellular networks as patrol units move through areas with weak or changing coverage. The solution uses adaptive stream switching to detect jitter and packet loss in real-time, dynamically adjusting the stream profile to ensure smooth video delivery.

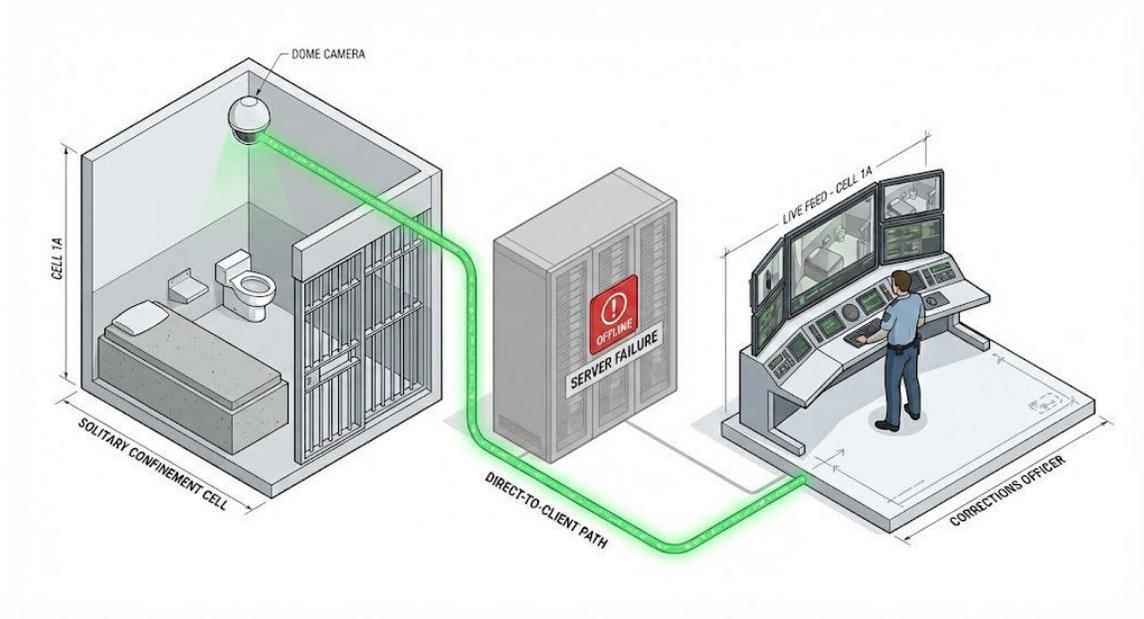
Key Benefits

- **Continuous Visibility:** Patrol video remains visible at Central Control even at the furthest edge of the facility perimeter.
- **Zero Open Ports:** The Outbound-Only Cloak architecture eliminates exposure to network scanners and botnets.
- **VMS Integration:** Standard ONVIF output integrates directly with existing Milestone XProtect or other VMS platforms.
- **Flexible Deployment:** Runs as a Docker container on existing cellular routers or standalone ruggedized hardware.



Use Case 2: Suicide Watch & Solitary Confinement

Challenge: "If the VMS goes down—even briefly—we lose live visibility into suicide watch cells."



Product Solution: SureStream

In the most sensitive areas of a correctional facility, losing live video view is unacceptable. Inmates on suicide watch or in solitary confinement require constant visual monitoring. Any gap in surveillance—even for routine maintenance or unexpected server failures—creates liability exposure and, more importantly, life-safety risks.

SureStream provides a failover playback path that allows staff to view live video directly from cameras within the Milestone Smart Client, even when VMS services are unavailable due to maintenance, outages, or cyber incidents. The solution operates 100% inside the existing XProtect environment with no external appliances to deploy.

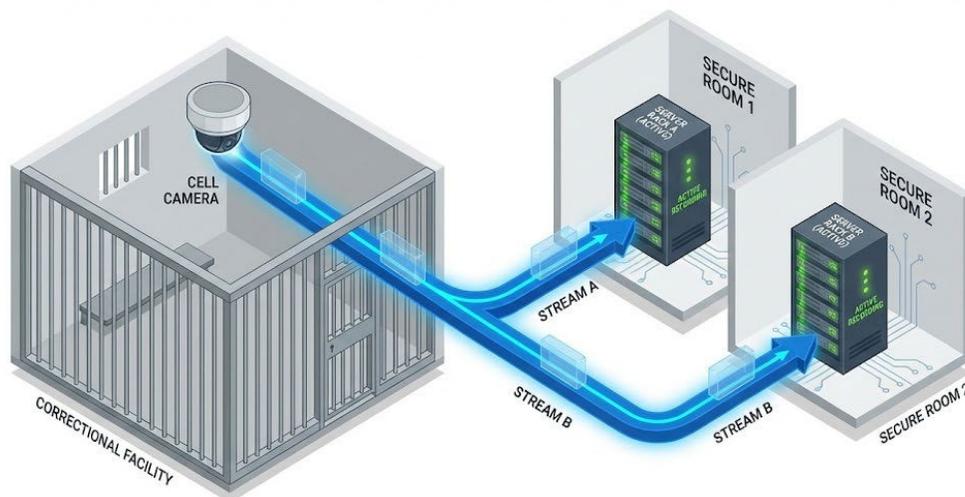
Key Benefits

- **Always-On Visibility:** Maintain operational "eyes-on-glass" even when servers go dark for patches or failures.
- **Native Integration:** No new applications for officers to learn—works within the existing Smart Client interface.
- **PREA Compliance:** Supports Prison Rape Elimination Act monitoring requirements with uninterrupted surveillance.
- **Cost-Effective:** Achieves enterprise-grade resilience without doubling hardware footprint for standby servers.



Use Case 3: Disturbance Resilience & Block Continuity

Challenge: "During a disturbance in Block C, the local server rack was damaged. We lost visibility when we needed it most."



ACTIVE-ACTIVE DUAL SERVER ARCHITECTURE: ZERO RECORDING GAPS

Product Solution: RMF (Redundancy Management Framework)

Hardware is particularly vulnerable during periods of unrest. Server racks, network equipment, and recording infrastructure can be damaged during disturbances, leaving security teams blind at the precise moment when visual situational awareness is most critical.

RMF maintains redundant recording paths for critical cameras across geographically separated data centers. Unlike traditional high-availability architectures that replicate everything—including mistakes and malware—RMF provides cybersecurity by design through selective object-level synchronization and fully isolated data centers.

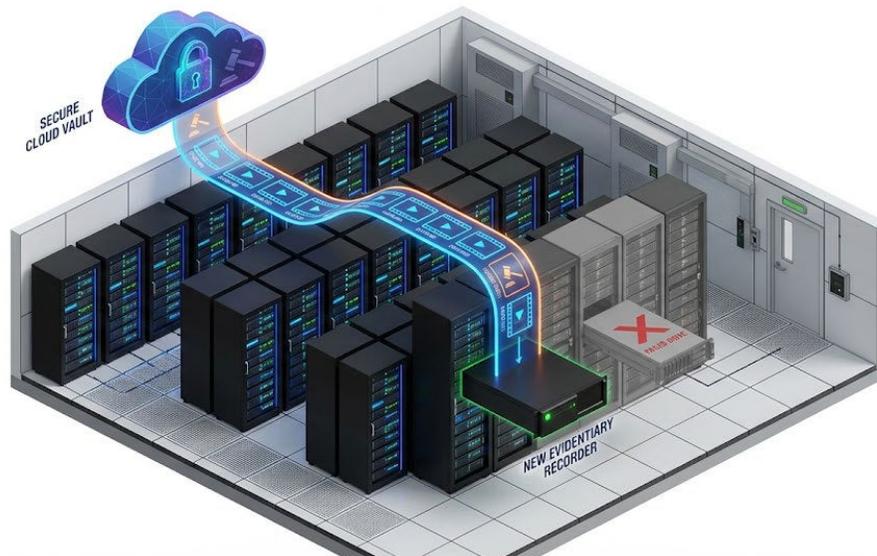
Key Benefits

- **Active-Active Architecture:** Both data centers are fully operational 24/7—all video resides in each location.
- **Rapid Live Video Recovery:** Client-side intelligence enables near-instantaneous failover to alternate data centers.
- **Cybersecure Design:** Object-level synchronization prevents malicious or unintended changes from spreading between sites.
- **Zero Recording Gaps:** Dual recording means no wait time to start backup streams when one data center fails.



Use Case 4: Use of Force Evidence After Hardware Failure

Challenge: "A recorder failed, and we lost the footage needed for a use-of-force investigation."



Product Solution: Nidhi

Investigations into use-of-force incidents, inmate altercations, and staff conduct depend entirely on reliable video evidence. When recording hardware fails—whether due to disk failure, motherboard issues, or other equipment problems—critical footage can be permanently lost, leaving facilities legally exposed and unable to defend their staff or accurately document incidents.

Nidhi protects against recorder failures and disk failures by maintaining a recoverable copy of critical video in secondary storage (cloud or on-premises SMB). When hardware fails, Nidhi enables restoration, preventing investigations from being blocked by missing footage due to equipment loss.

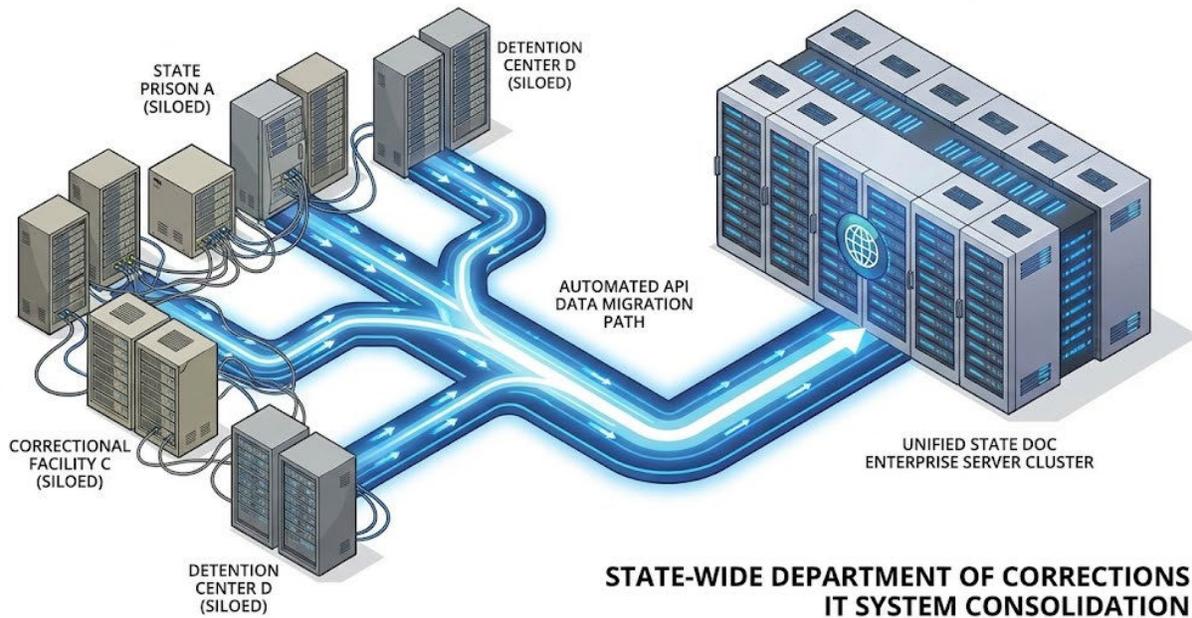
Key Benefits

- **Automated Backup:** Runs silently in the background, mirroring footage to secure cloud or SMB storage.
- **Bandwidth Scheduling:** Throttles backup speeds during business hours to protect network performance, then accelerates overnight.
- **Simple Recovery:** The Restore Wizard enables quick recovery of missing footage after drive replacement.
- **Native XProtect Integration:** Installs directly into the XProtect Management Client as a native plugin.



Use Case 5: DOC System Consolidation

Challenge: "The State DOC wants to centralize 12 prisons into one VMS. It's a logistical nightmare."



Product Solution: XPort

State Departments of Corrections often manage multiple siloed XProtect deployments across numerous facilities, each with its own Software License Code, configuration, and operational history. Consolidating these disparate systems into a unified statewide architecture is traditionally a massive undertaking that requires significant expertise and manual effort.

XPort automates the consolidation process by migrating devices, configurations, and roles from multiple source sites into a unified State DOC architecture. The solution reduces migration costs by up to 60% while ensuring a seamless transition with minimal operational disruption.

Key Benefits

- **Many-to-One Migration:** Merge information from multiple databases into a unified system seamlessly.
- **Precision Control:** Choose to migrate specific devices, roles, views, or migrate everything—fine-grained control.
- **Universal Compatibility:** Works with every edition and version of Milestone XProtect.
- **Simplified Workflow:** No need to restore databases or edit XML files—XPort handles the complexity.



Summary

Correctional facilities face unique challenges in maintaining continuous video surveillance. Legal scrutiny, duty-of-care requirements, and the potential for volatile situations demand video infrastructure that remains operational under all circumstances.

Vega Systems provides a comprehensive suite of products that address every layer of vulnerability—from mobile perimeter patrols to central data center resilience to state-wide system consolidation. Our solutions integrate natively with Milestone XProtect, minimizing training requirements and maximizing adoption.

Use Case	Challenge	Vega Solution
Perimeter Patrol	Dead Wi-Fi at the fence line	Atlas – Cellular video transport
Suicide Watch	VMS downtime loses visibility	SureStream – Direct camera failover
Disturbance Resilience	Hardware damaged during unrest	RMF – Active-active redundancy
Use of Force Evidence	Recorder failure loses footage	Nidhi – Backup and restore
DOC Consolidation	Multiple siloed VMS systems	XPort – Automated migration



Contact Us

Ready to secure your correctional facility's video infrastructure? Contact Vega Systems to schedule a consultation or demonstration.



Vega Systems Inc.

The Immune System for Video Infrastructure

Phone: +1-669-256-2357

Email: info@vega25.com

Website: <https://vega25.com>

Address:

6203 San Ignacio Avenue Suite 110
PMB # 1319 San Jose, CA 95119

Request a Demo

Experience our solutions firsthand. Schedule a live demonstration to show you exactly how Vega products protect video infrastructure in real-world failure scenarios.

Documentation & Resources

- **Product Documentation:** docs.vega25.com
- **RMF Overview:** vega25.com/redundancy-management-framework
- **Video Library:** vega25.com/redundancy-management-framework/rmf-video-library

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