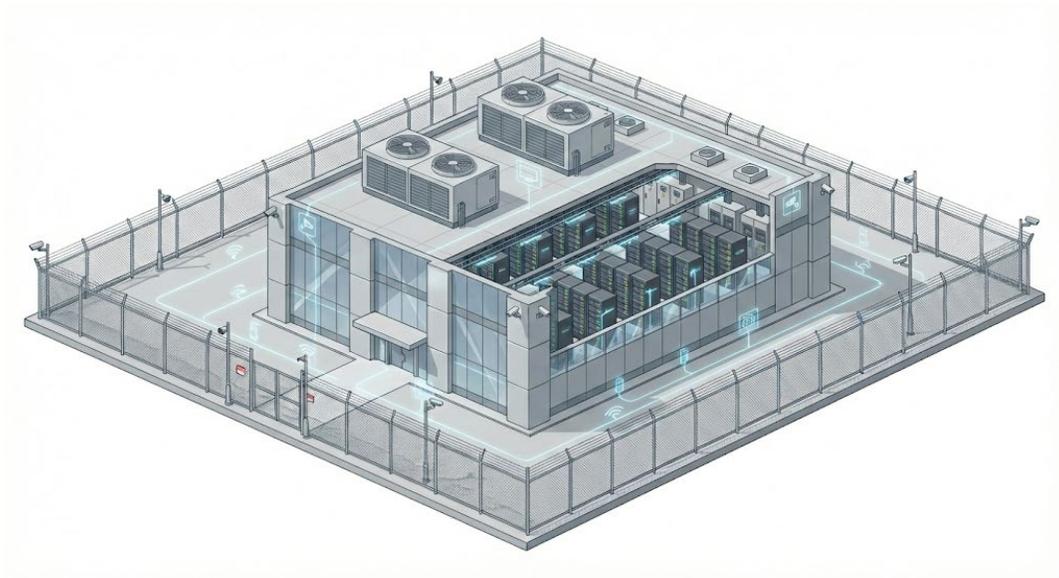




## **VEGA SYSTEMS INC.**

*The Immune System for Video Infrastructure*



## **USE CASE DOCUMENTATION**

# **DATA CENTERS**

**Fortress-Grade Security for Mission-Critical Facilities**

Version 2.0  
February 2026

# Executive Summary

Data Centers sell trust. In a Tier 4 facility, 99.995% uptime is the baseline. Your physical security system must match that standard. From the biometric mantrap to the perimeter fence, any loss of video is a compliance violation.

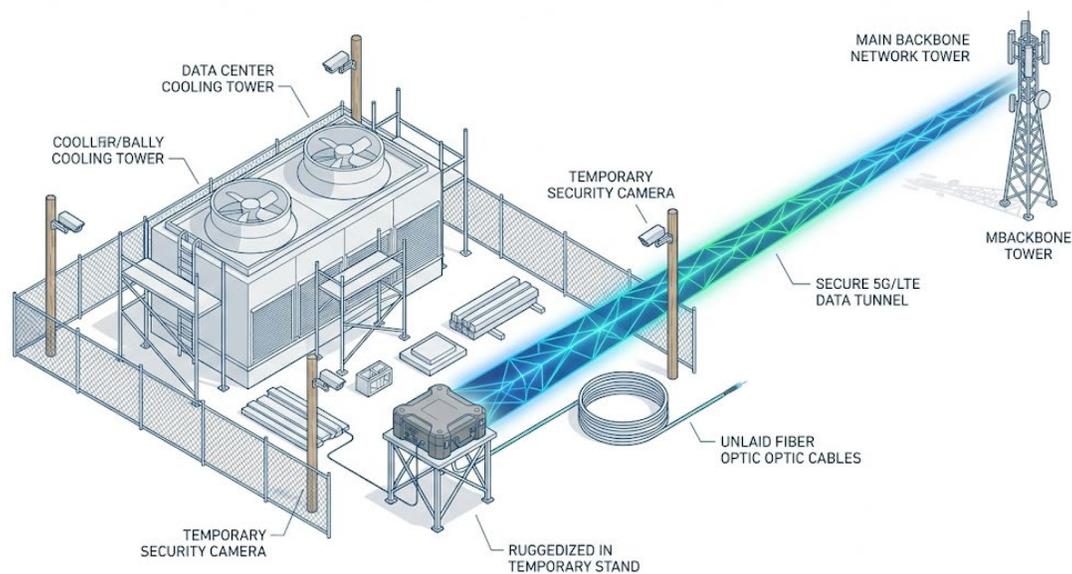
This document outlines five critical use cases in which Vega products address specific data center security challenges, delivering robust solutions that exceed industry standards.

## Vega Product Portfolio for Data Centers

- **Redundancy Management Framework (RMF)** – Cyber-secure redundancy for Milestone XProtect
- **XPort** – Seamless VMS migration without downtime
- **SureStream** – Direct camera-to-client streaming during server failures
- **Nidhi** – Automated video backup and disaster recovery
- **Atlas** – Secure video transport over wireless networks

# Use Case 1: Remote Construction Site Security

## Hall F – Remote Construction



### The Challenge

Data center expansion projects often require security coverage before infrastructure is fully deployed. A new cooling plant or server hall under construction needs perimeter security to be active immediately, but fiber connectivity may not be available for months.

*"The fiber isn't lit yet for the new Hall F cooling plant, but we need perimeter security active today."*

### The Solution: Atlas

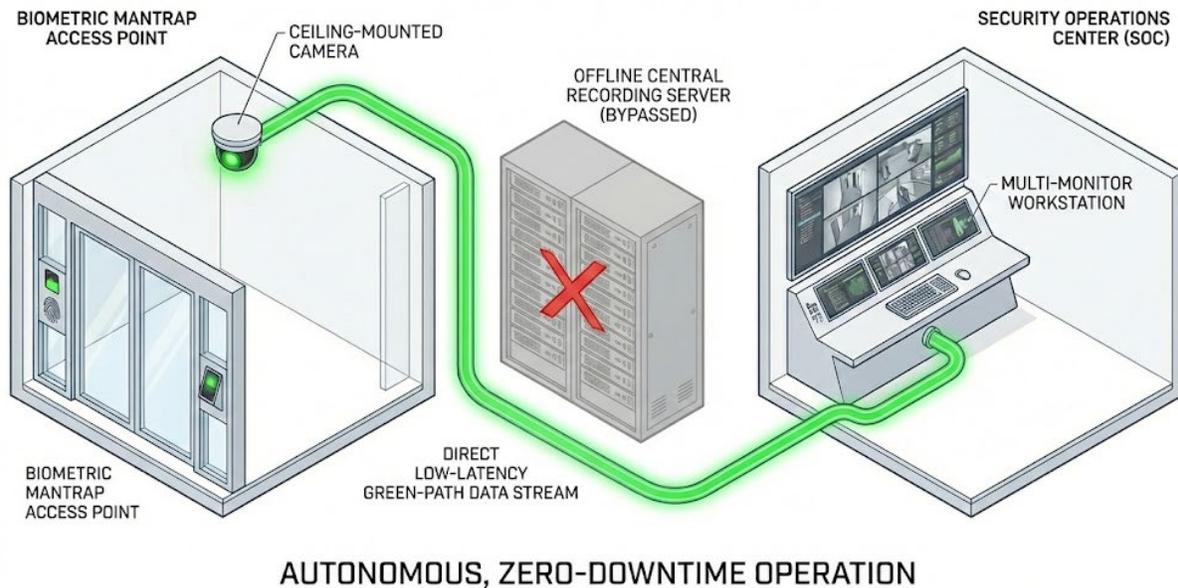
Atlas provides Secure Edge Transport for remote zones such as Hall F. It creates an encrypted wireless bridge over 5G/LTE back to the main backbone, enabling immediate perimeter-security deployment without sacrificing video quality or security standards.

### Key Benefits

- **Instant deployment** – Security active months before fiber is laid
- **Outbound-Only Cloak** – Zero open ports, invisible to network scanners
- **Adaptive Stream Switching** – Maintains quality despite cellular network variability
- **Universal VMS compatibility** – Standard ONVIF output to any existing system

# Use Case 2: Biometric Mantrap Visibility

## Maintaining Eyes on Critical Access Points



### The Challenge

During routine server maintenance or unexpected outages, video feeds can freeze at the worst possible moment. Security Operations Centers (SOCs) lose visual verification capability precisely when they need it most – when personnel are accessing secure areas.

*"During a server patch, the video feed froze. We couldn't visually verify the technician in the mantrap."*

### The Solution: SureStream

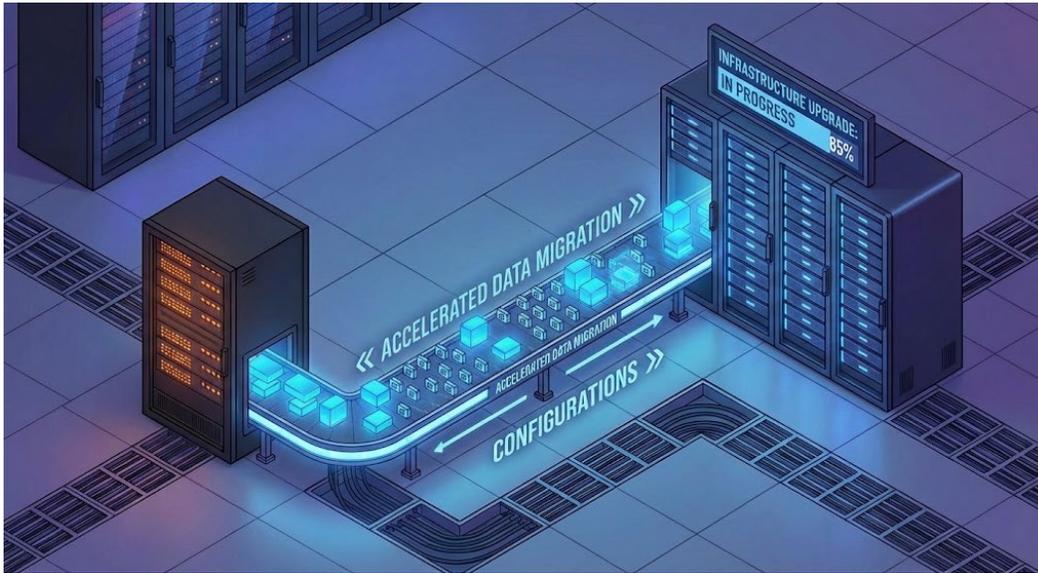
SureStream ensures operator visibility during server outages by creating a direct, green-path video link from the camera to the SOC workstation. This connection bypasses the recording server entirely, maintaining real-time visibility into critical access points even when the primary path is down for maintenance.

### Key Benefits

- **Always-on visibility** – Live streams never stop, regardless of server status
- **Native XProtect integration** – No external appliances or new applications required
- **Zero hardware footprint** – Enterprise resilience without standby servers
- **Rapid deployment** – Plugin installation in minutes

# Use Case 3: Legacy to New VMS Migration

## Zero-Downtime Infrastructure Upgrades



### The Challenge

Data centers cannot afford any downtime in their security systems during infrastructure upgrades. Traditional VMS migrations require extensive planning and database manipulation and often result in coverage gaps during the transition period.

*"We need to migrate our Legacy VMS Cluster to the New Environment without a second of downtime."*

### The Solution: XPort

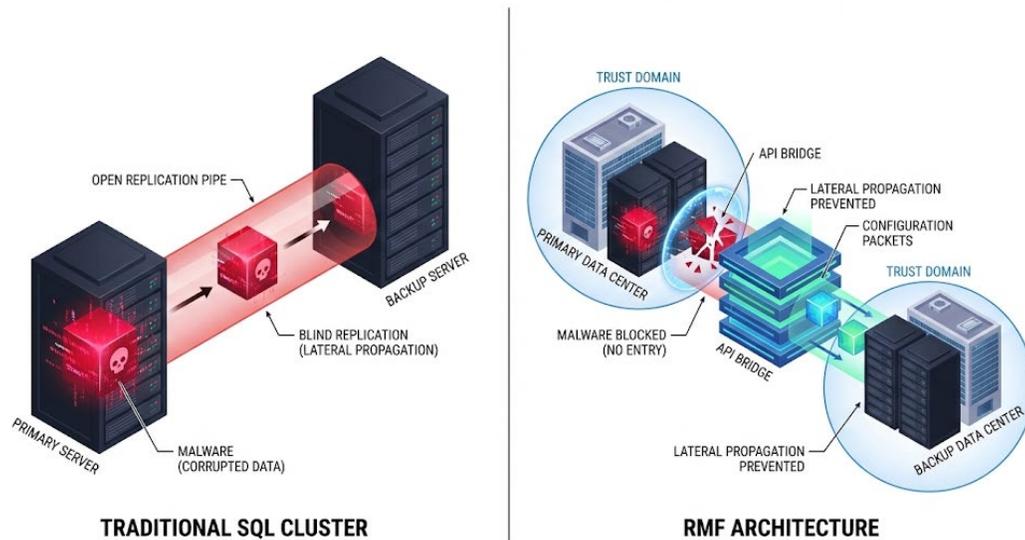
XPort powers Controlled System Migration by establishing a secure pipeline between legacy and new VMS environments. It enables seamless movement of cameras, users, roles, views, and configurations between isolated zones, ensuring zero downtime during major infrastructure upgrades.

### Key Benefits

- **60% cost reduction** – Automated migration reduces manual effort
- **Precision control** – Migrate specific devices, roles, or entire deployments
- **Universal compatibility** – Works with all XProtect editions and versions
- **Cloud migration support** – On-premises to cloud transitions supported

# Use Case 4: Cyber-Aware Redundancy

## Ransomware-Resistant Architecture



### The Challenge

Traditional high-availability architectures replicate everything between data centers – including mistakes and malware. When ransomware infects a primary management server, conventional clustering immediately propagates the infection to backup systems.

*"Ransomware infected the primary management server. We need to ensure the backup doesn't get infected, too."*

### The Solution: RMF (Redundancy Management Framework)

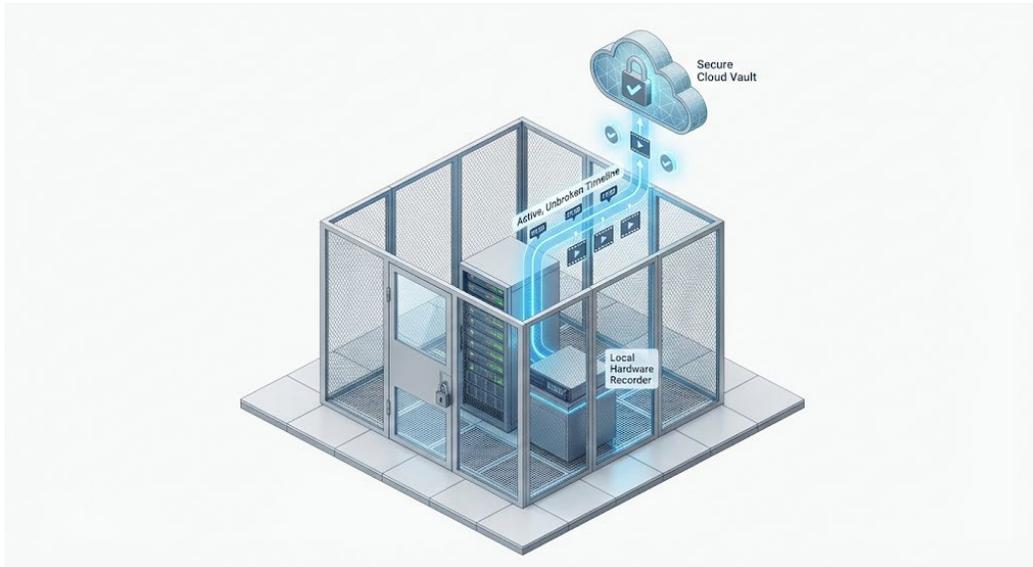
RMF provides Cyber-Aware Isolation via object-level synchronization rather than blind database replication. Each change passes through Milestone's API as a discrete payload that can be validated, logged, or blocked before crossing air-gapped boundaries. The backup environment remains physically and logically separate and unaffected by any compromise of the primary node.

### Key Benefits

- **Selective object synchronization** – Prevents malware propagation
- **Datacenter isolation** – No shared attack surfaces
- **Active-active architecture** – Both data centers fully operational 24/7
- **Rapid live video recovery** – Near-instantaneous failover

# Use Case 5: Secure Video Retention for Compliance

## Audit-Ready Evidence Vault



### The Challenge

Compliance auditors require proof of physical access events from months prior. A corrupted drive or hardware failure cannot be an excuse for missing evidence.

*"An auditor needs proof of a cage entry from 6 months ago. We can't risk a corrupted drive losing that evidence."*

### The Solution: Nidhi

Nidhi serves as your digital vault for compliance. It automates the flow of critical footage – such as cage entries and mantrap events – into a hardened retention vault on Cloud or SMB storage. Even if local recorders fail, compliance evidence remains safe, recoverable, and ready for audit at any time.

### Key Benefits

- **Automated backup** – Set-and-forget real-time mirroring
- **Bandwidth scheduling** – Throttles during business hours, opens at night
- **Total hardware recovery** – Restore entire configuration after catastrophic failure
- **Native XProtect integration** – Single pane of glass management

# Contact Us

Ready to secure your data center with fortress-grade video infrastructure? Our team of experts is ready to help you design a solution that meets your specific requirements and compliance needs.



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## Request a Demo

Visit [vega25.com](https://vega25.com) to schedule a personalized demonstration of our solutions for your data center environment.

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