Vega

USE CASES

DECEMBER 2022

HIGH AVAILABILITY SITUATIONAL AWARENESS WITH RMF AND SURESTREAM

Enhanced Security for Critical Infrastructure

Every critical infrastructure facility requires high availability surveillance to detect and react to threats quickly.

Many facilities require redundant surveillance infrastructure and data to achieve low surveillance downtime requirements. Some even require video surveillance to be insulated from catastrophic all-server failure.

Vega Systems' Redundancy Management Framework (RMF) and SureStream solutions integrate into Milestone XProtect VMS and help facilities maintain a sharp security posture while mitigating the impact of many failure modes.

RMF smart-combines video and functionality across the redundant infrastructure to achieve *high functional availability* and *infrastructure transparency.* On the other hand, SureStream insulates live video from catastrophic all-server failure.

RMF and SureStream are independent solutions that can be deployed together or separately based on site requirements.

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Reduce Airport Security Loopholes

At airports, public safety demands the deployment of high-availability video surveillance solutions.

A suitable solution must do several things: use mitigation that is agnostic to many failure types, have negligible outage times during failure episodes and software updates, support high camera density, integrate with other software components, cater to varying budgets, and have low learning and management barriers. Our solutions deliver all of these.

High-traffic airports use our solutions to reduce security loopholes caused by hardware/software failures in the solution ecosystem. Because our idea of failure is aligned with the end-user definition of failure, failure handling happens at a more granular level in a user-pertinent manner.

For example, live video recovery in RMF is a democratic process where each client window independently decides the redundant source that best serves it. Failure detection happens in each client and not centrally in some remote servers. Each client chooses mitigation measures based on what works for the user at the client.

AIRPORTS

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Public Safety demands a High Availability solution

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Reduce Revenue Losses

At a port, container loading/unloading, harbor traffic management, and operation of heavy machines all require uninterrupted live video. Every minute without video information delays cargo movement and translates to lost revenue for the port operator.

Vega Systems solutions help ports by shrinking live video downtimes.

Support for multiple high-availability configurations empowers system integrators to choose a design driven by customer needs. For example, some ports need zero downtime during software updates. Specific support for federated architectures helps achieve this objective.

Busy seaports with high camera densities use Vega Systems' solutions to reduce revenue loss.

SEAPORTS

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Video loss EQUALS revenue loss

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Secure Power Plants

Power plants often have stringent, multi-dimensional security requirements. System Integrators bring products from different manufacturers together to meet needs.

For example, some facilities require the maximum live video loss to be less than one second during failure episodes. At the same time, they require redundant video storage. On top of this, the threat event alert latency may need to be lower than a certain number.
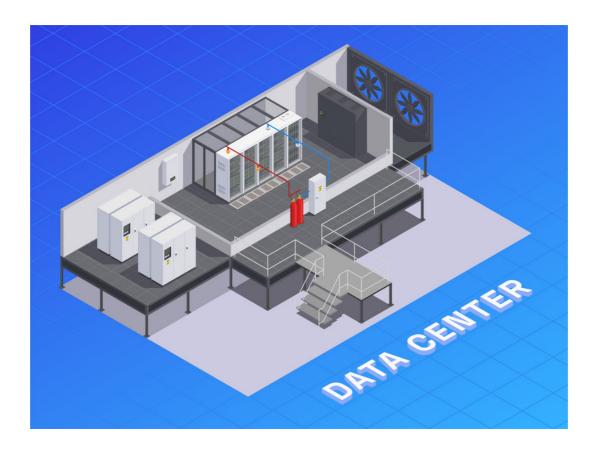
In this example, our solution, RMF, helps independently meet the live video requirement. It facilitates video redundancy. Finally, through support for redundant alarm management, it forms a part of a multi-vendor solution to meet end-to-end alert latency numbers.

We are pleased to count energy facilities among our customers.

ENERGY

Sub-second live video recovery

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Secure Data Assets

Datacenters occupy a central role in human society today. Thus, physical access to each data center server must be monitored 24x7x365.

Though surveillance server infrastructure could be well-designed, the chance of catastrophic multi-surveillance server failure is non-zero. Because of the criticality of customer data, data centers see the need to guard against this.

Datacenters use our SureStream solution to achieve surveillance server failure insulation.

DATACENTERS

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Insulate surveillance from server failures

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Campus Safety

Campuses are next only to airports in terms of camera density and have similar high-availability surveillance requirements.

A campus may have surveillance hardware components acquired over a long period from multiple manufacturers. Some, though functioning, may be obsolete and too expensive to replace. Also, campuses may have stringent firewall policies because of the high numbers of IT infrastructure users (i.e., the student community).
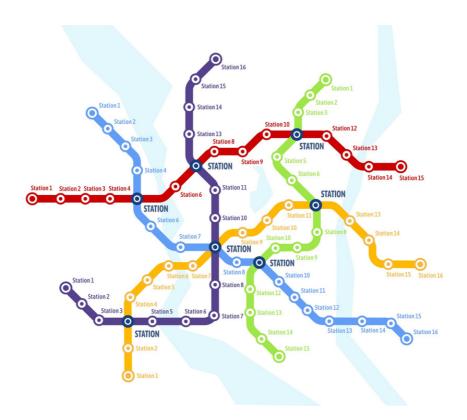
Any high-availability surveillance solution must thus function well across a range of product makes with manufacture dates spread over decades. It must also work under a strict firewall regimen.

Vega Systems' RMF solution delivers on all of these coordinate points.

CAMPUS

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Works under strict firewall regimen

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Local Streaming at Distributed Deployments

Sometimes, video surveillance is architected in transport networks such as railways to have centralized servers and distributed cameras. For example, cameras could be distributed at railway stations and crossings, but video servers and footage could be centralized for security purposes.

Further, in these deployments, one might need security personnel in the railway stations to monitor events/video from local cameras.

This requirement causes video roundtrips from cameras to servers and back to the cameras' physical location.

By providing bandwidth-efficient multicast live streaming directly between local cameras and clients, SureStream eliminates roundtrips. Decongests the network and insulates local security operations from overall network performance.

TRANSPORT NETWORKS

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Eliminate Video Roundtrips

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