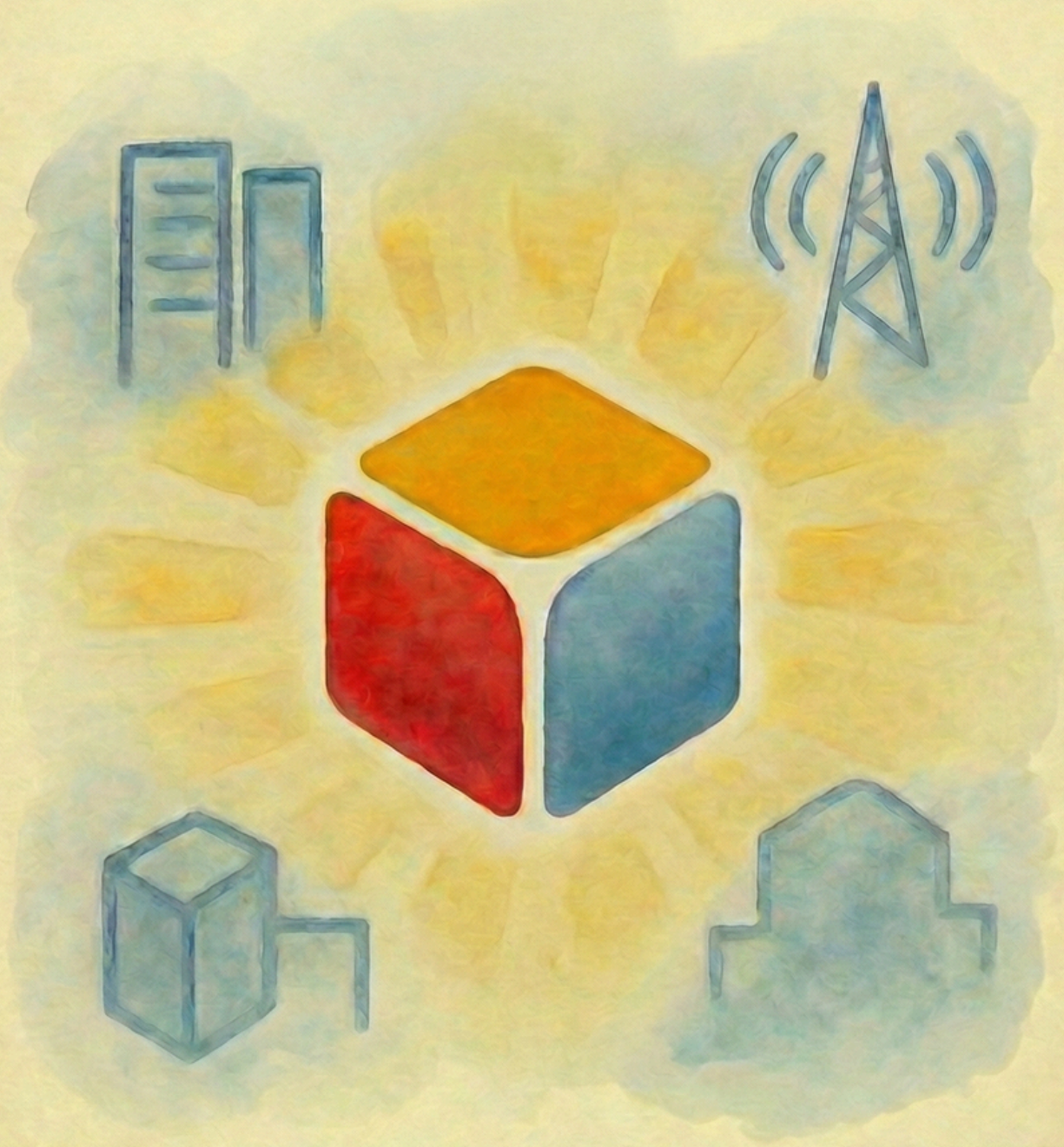


VEGA SYSTEMS

Continuity & Connectivity



Vol. 1, Jan 2026



vega25.com



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CONTINUITY

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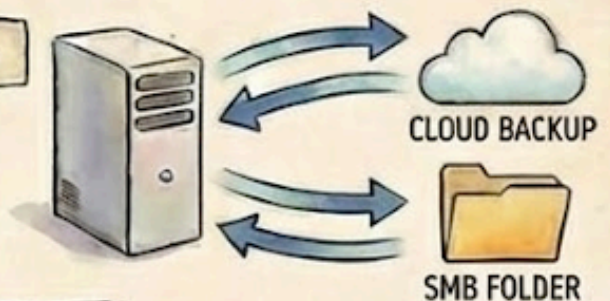
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From drones to trains, Atlas simplifies the edge video infrastructure and guarantees reliable transport back to HQ.



WHO THIS BOOK IS FOR



The world moves fast. We move faster. This isn't just a book... it's a survival guide for those who keep the world running!

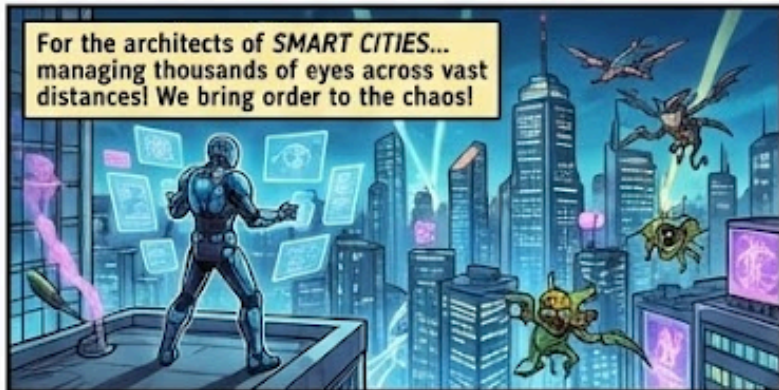
For the masters of **TRANSPORT & METRO SYSTEMS**... where a moving asset is a moving target!



For the protectors of **CRITICAL INFRASTRUCTURE**... where a single lost second is a catastrophe! We don't just watch... we defend!



For the architects of **SMART CITIES**... managing thousands of eyes across vast distances! We bring order to the chaos!



For the leaders of **LARGE ENTERPRISES**... migrating legacy silos without a moment of downtime! We build the bridges to the future!



And for the heroes in **MOBILE/REMOTE DEPLOYMENTS**... police, drones, trains, off-grid... wherever the mission takes you, we've got your back!



The stakes are high.
The mission is critical.



**IF YOU CAN'T AFFORD TO BLINK,
THIS BOOK IS FOR YOU!**

HOW TO READ THIS BOOK

Decoding the Vega Ecosystem

BAND 1



RMF

(The Continuity Suite)

Uptime & Cyber Resilience.

Stops ransomware. Keeps the system running when hardware fails.

BAND 2



SureStream

(The Continuity Suite)

The Unblinking Eye.

Keeps live video running even when recording servers crash—Direct-from-camera path.

BAND 3



XPort

(The Continuity Suite)

Migration Without Pain.

Moves old systems to new hardware instantly. Saves 70% of project time.

BAND 4



Nidhi

(The Continuity Suite)

The Vault.

Intelligent backup to cloud or local storage.

BAND 5



Atlas

(The Connectivity Suite)

Secure Edge Video.

Connects police cars, trains, and remote sites without hardware boxes or security risks.



Scan QR to go deeper
or book a demo.

VEGA RMF: THE GEMINI DEFENSE

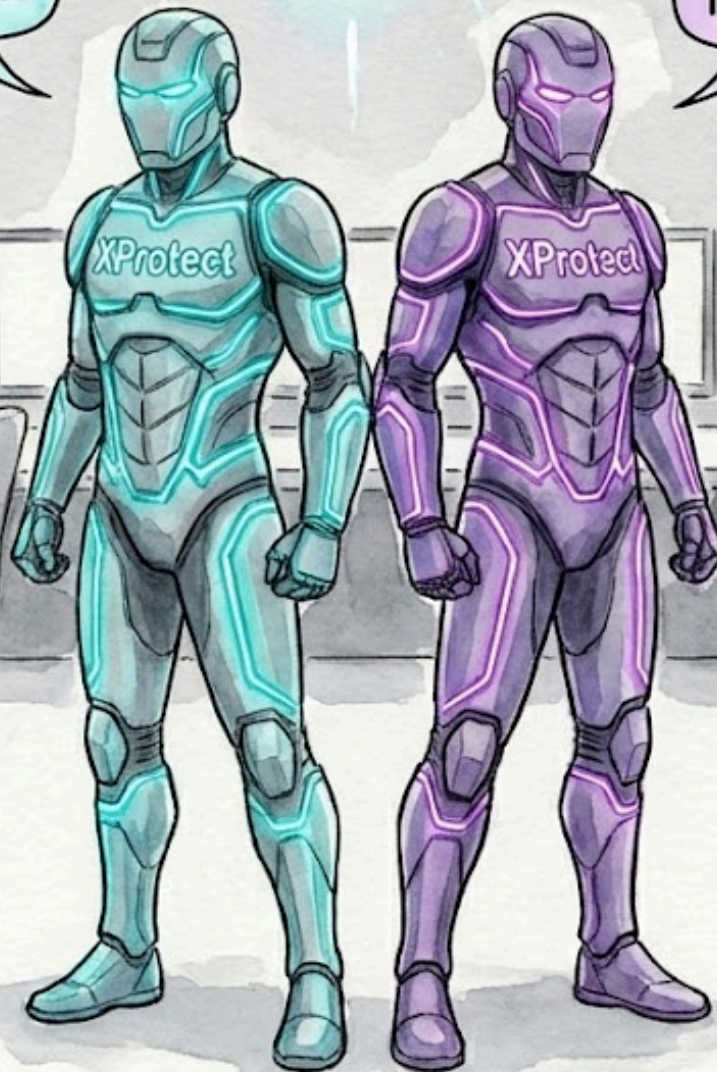
The Origin of Active-Active Redundancy



System state:
ACTIVE-ACTIVE.

Node A online.

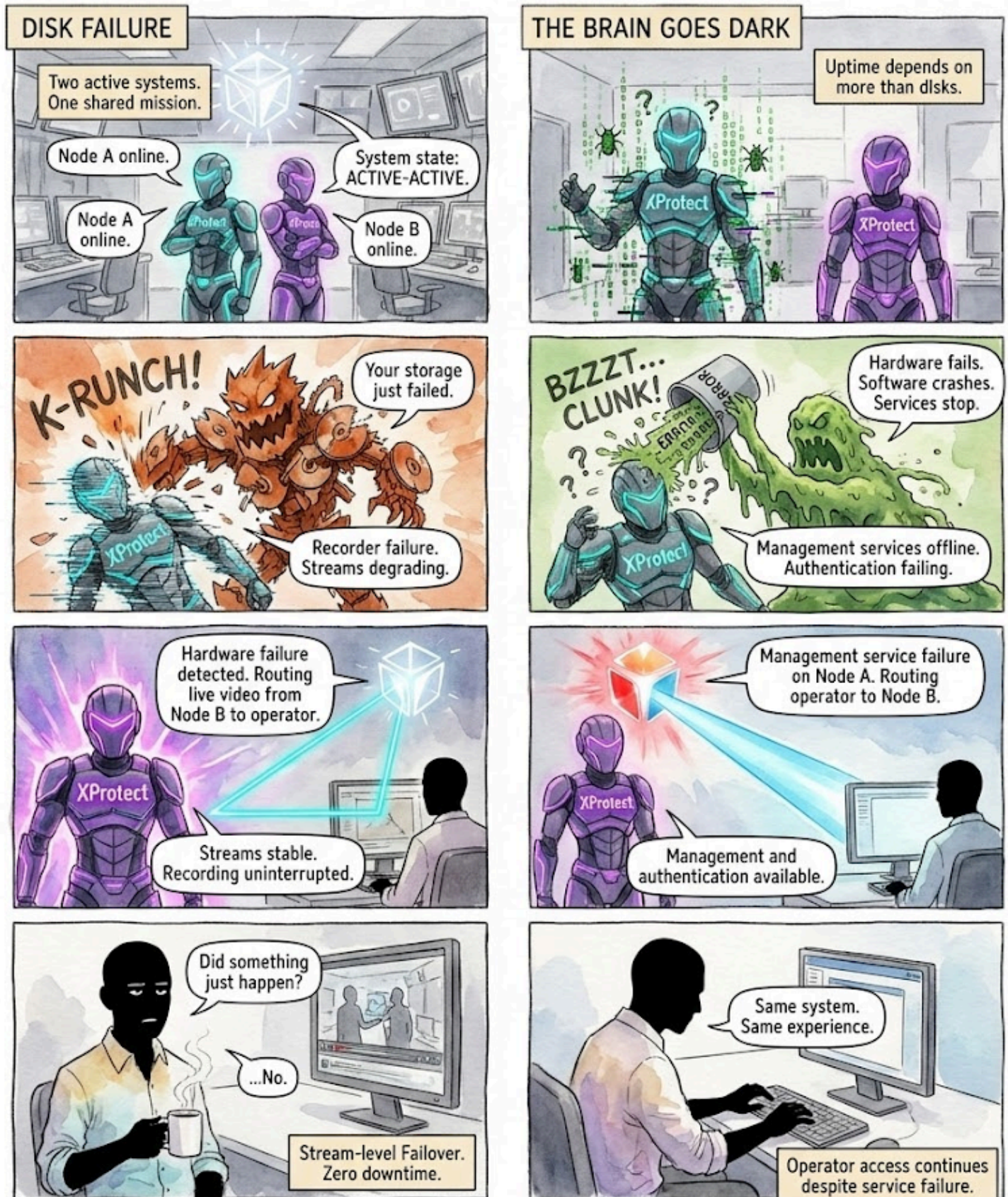
Node B online.

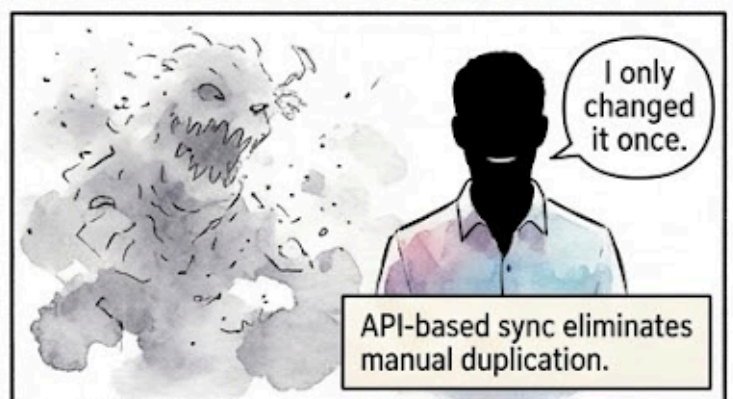
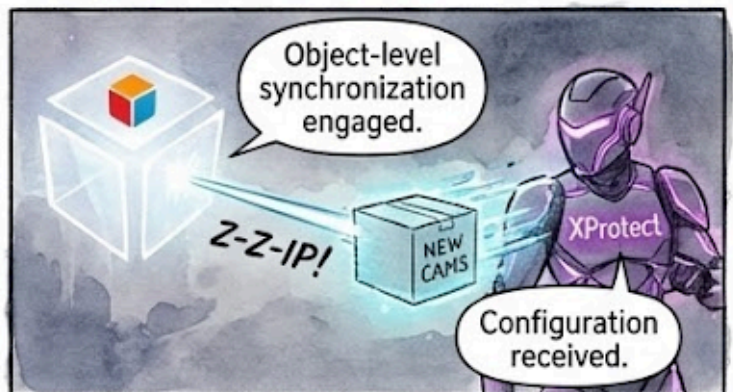
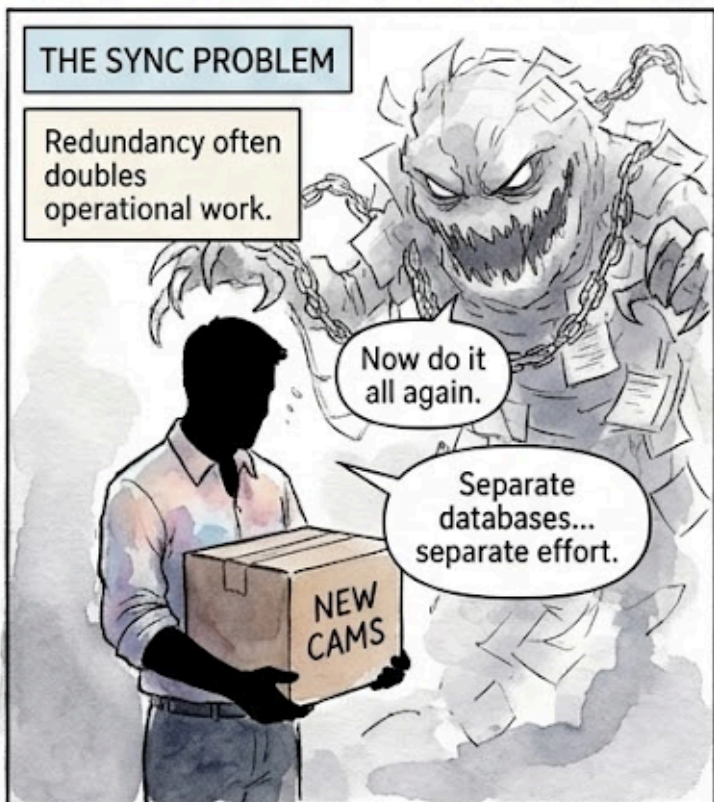
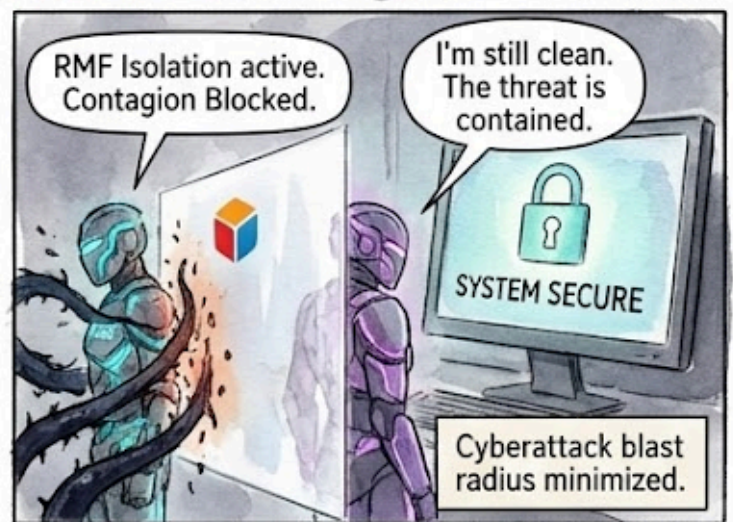
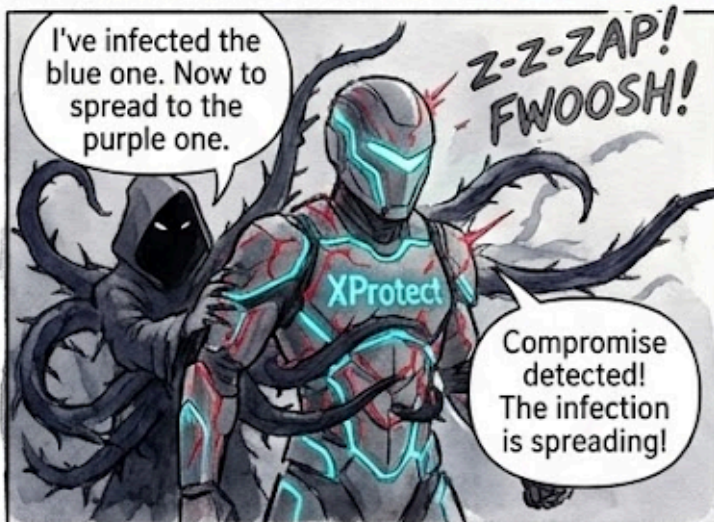
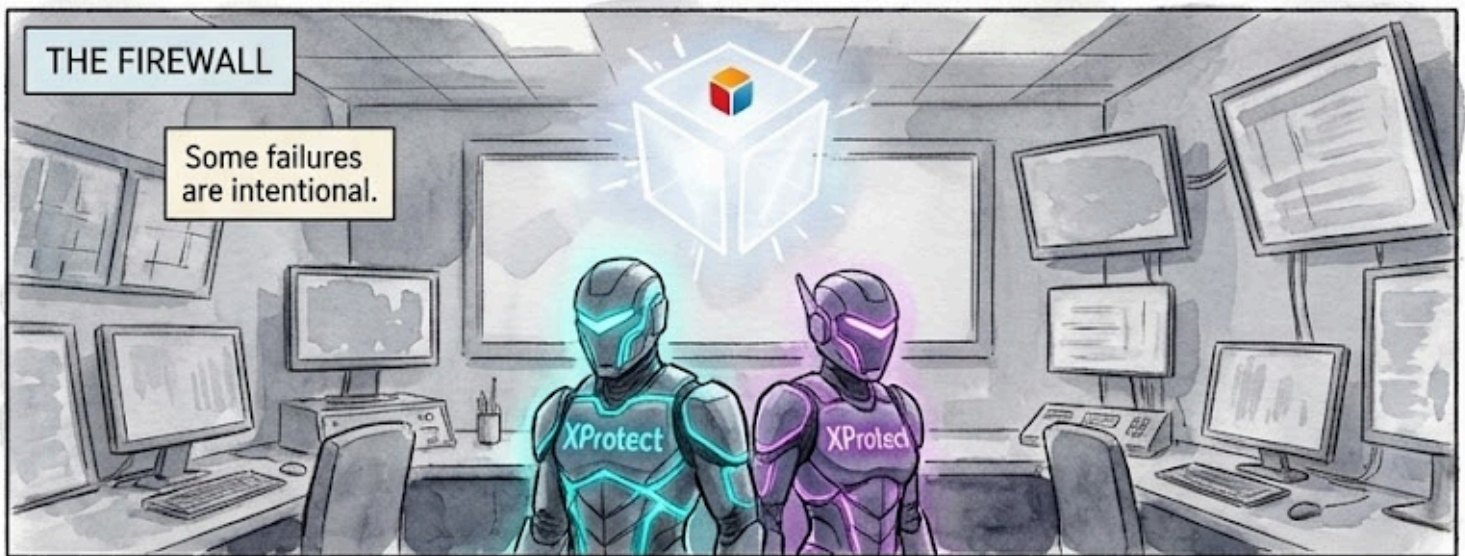


5

VEGA RMF: THE GEMINI DEFENSE

The Origin of Active-Active Redundancy





THE HEALING

You were offline.
That time is gone.

There's a gap in
my recordings.

Video gap detected.
Initiating backfill.

Nothing
missing.

Backfill restores evidence after recovery.

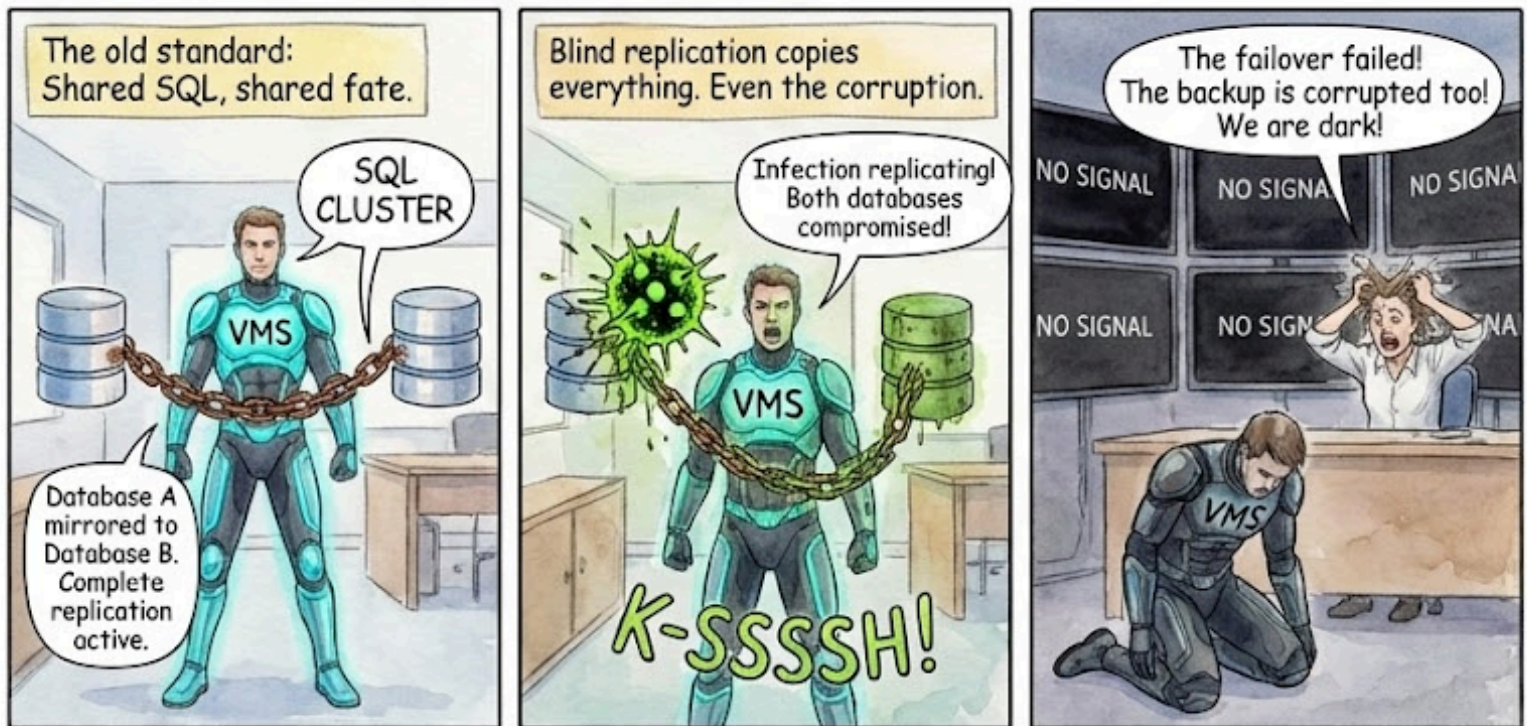
All's well that ends well.

Failures are temporary. The evidence is forever.

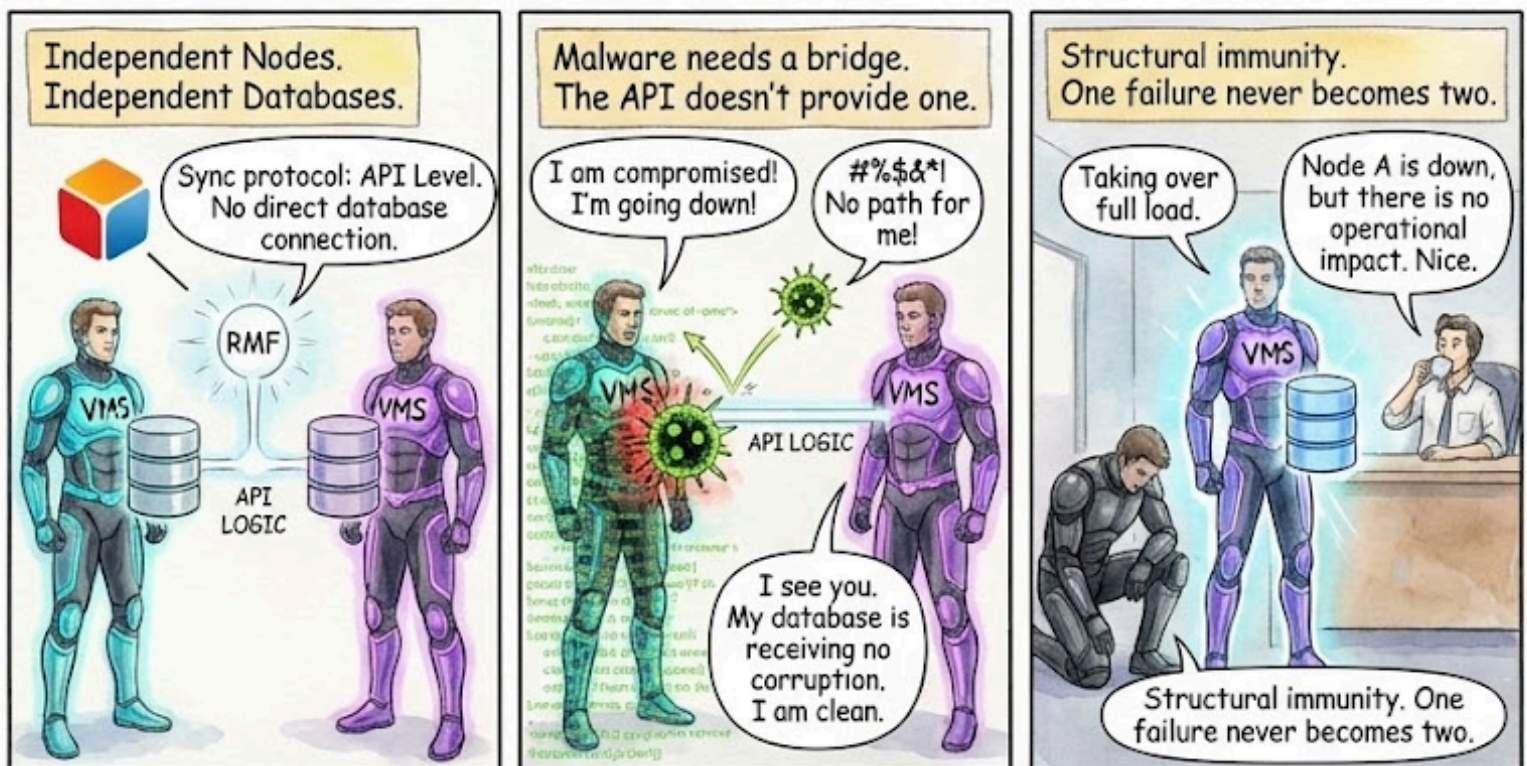
THE SYNCHRONIZATION SHIELD

Traditional SQL Clustering vs. Vega API Isolation

THE OLD WAY (Historical High Availability)



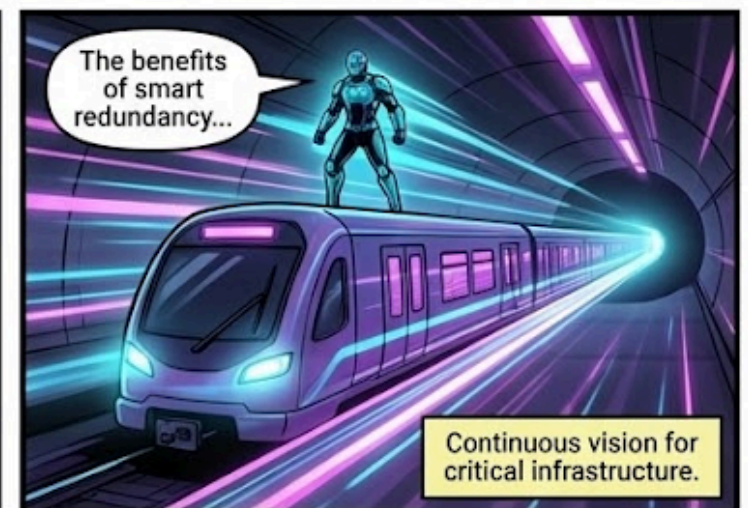
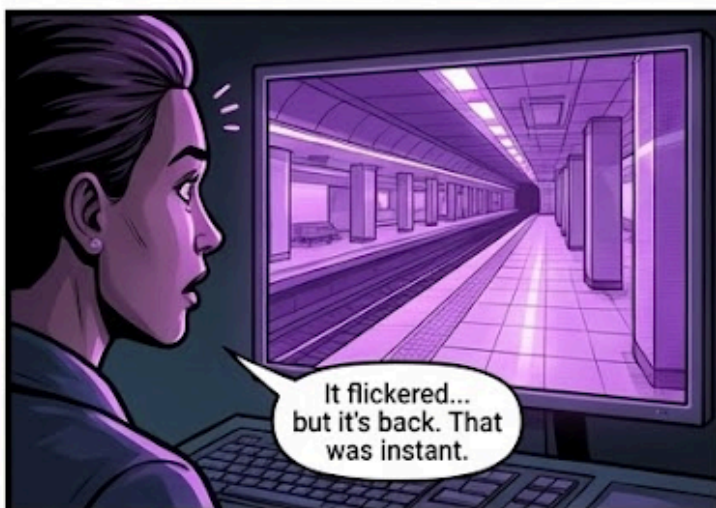
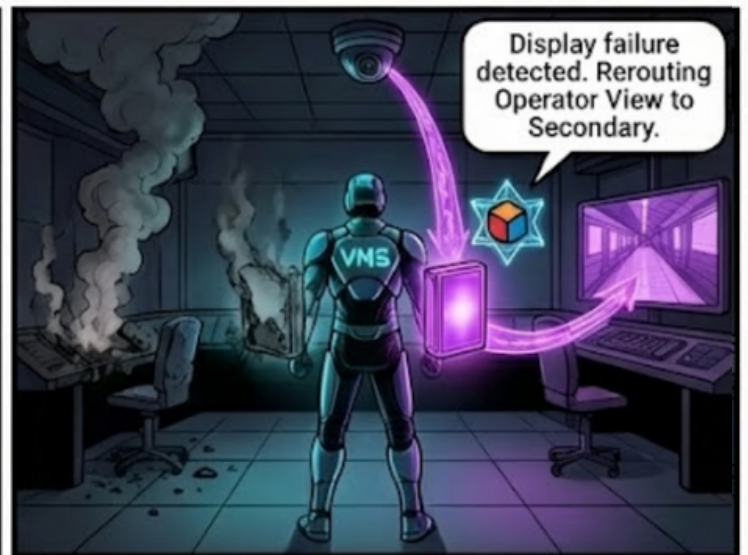
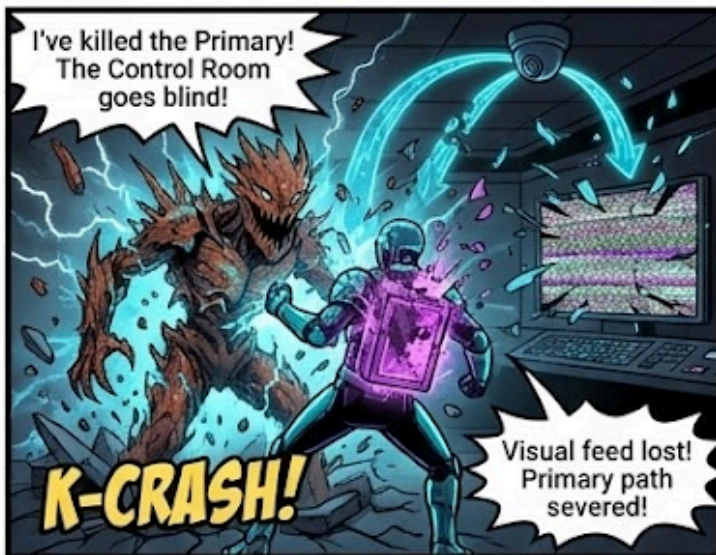
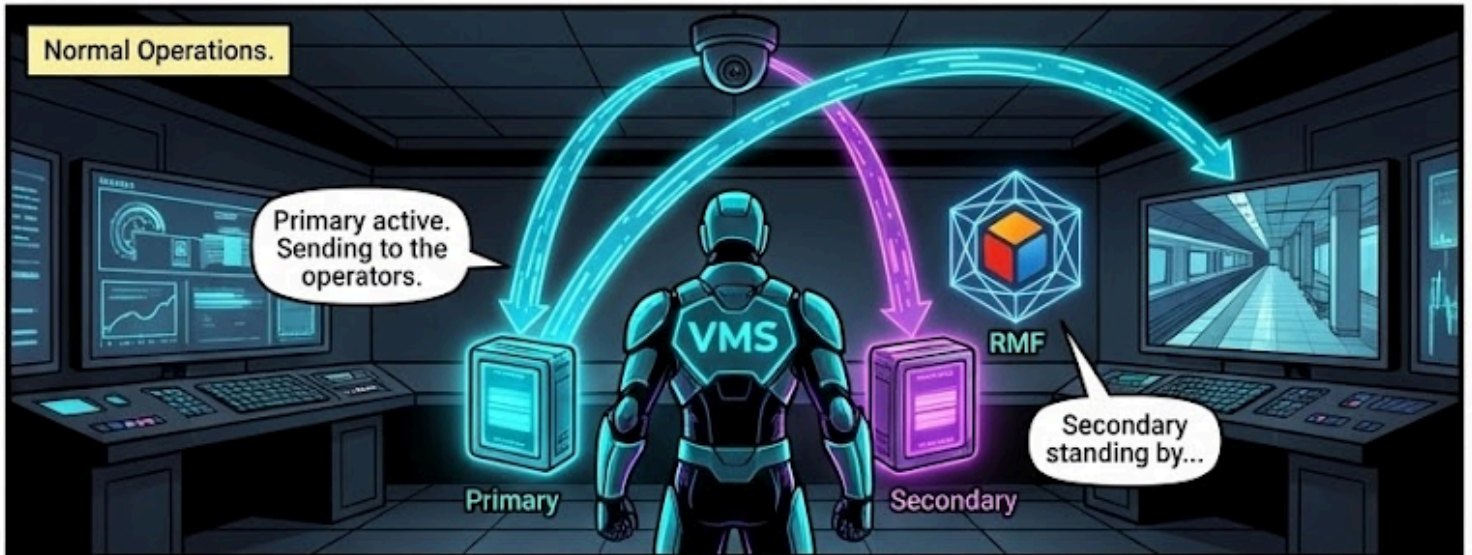
THE VEGA WAY (Active-Active Isolation)



THE METRO DEFENSE

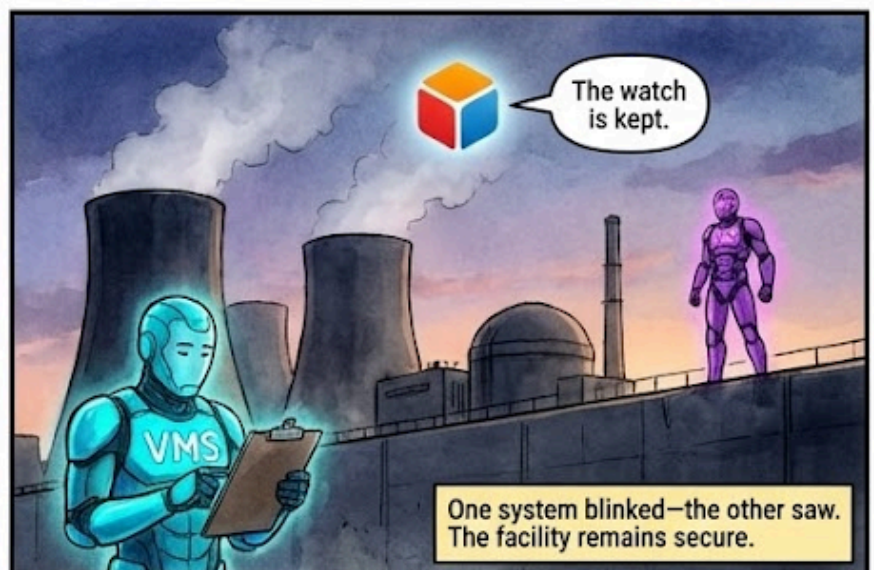
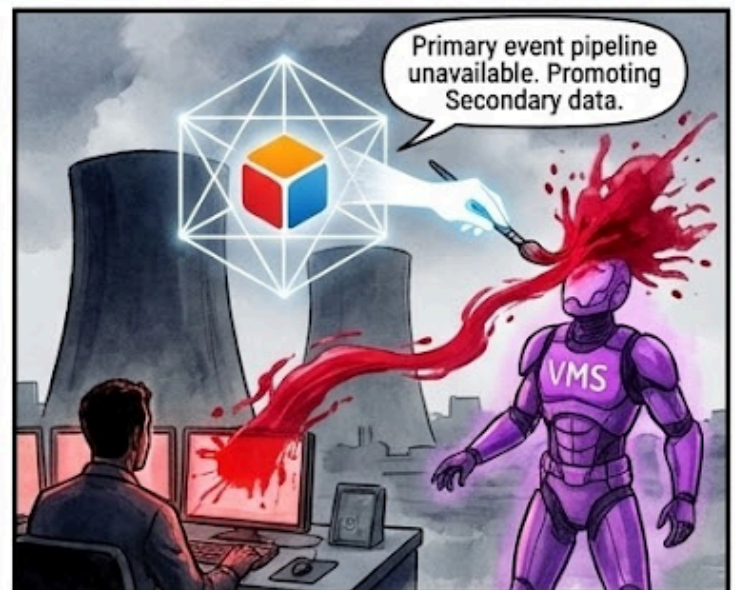
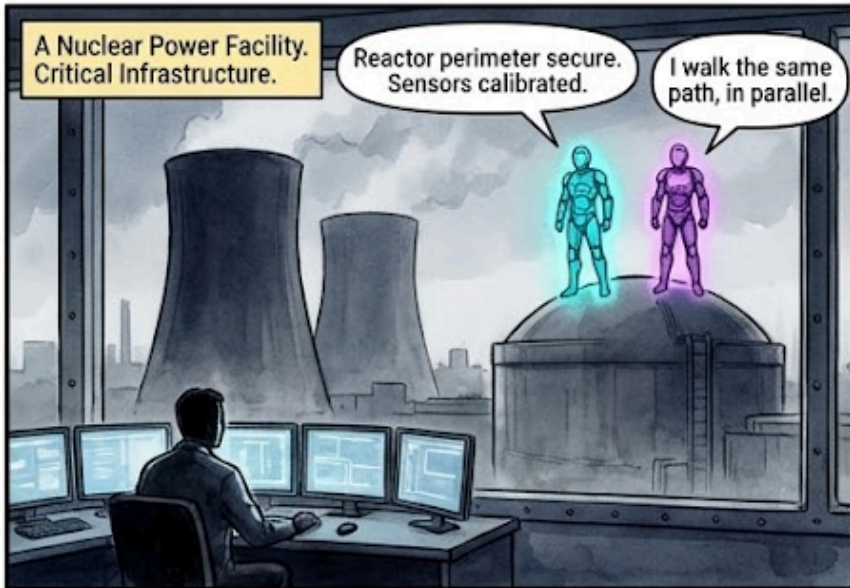
Seamless Operator Switching

Normal Operations.



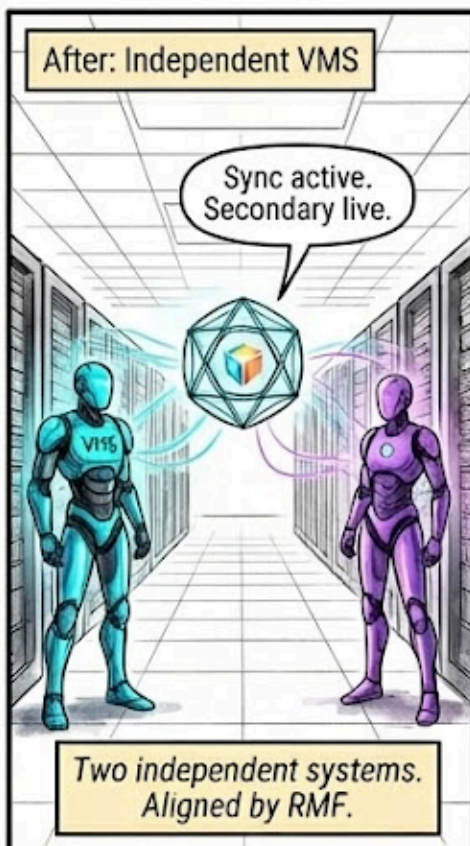
THE NUCLEAR WATCH

Zero Missed Events

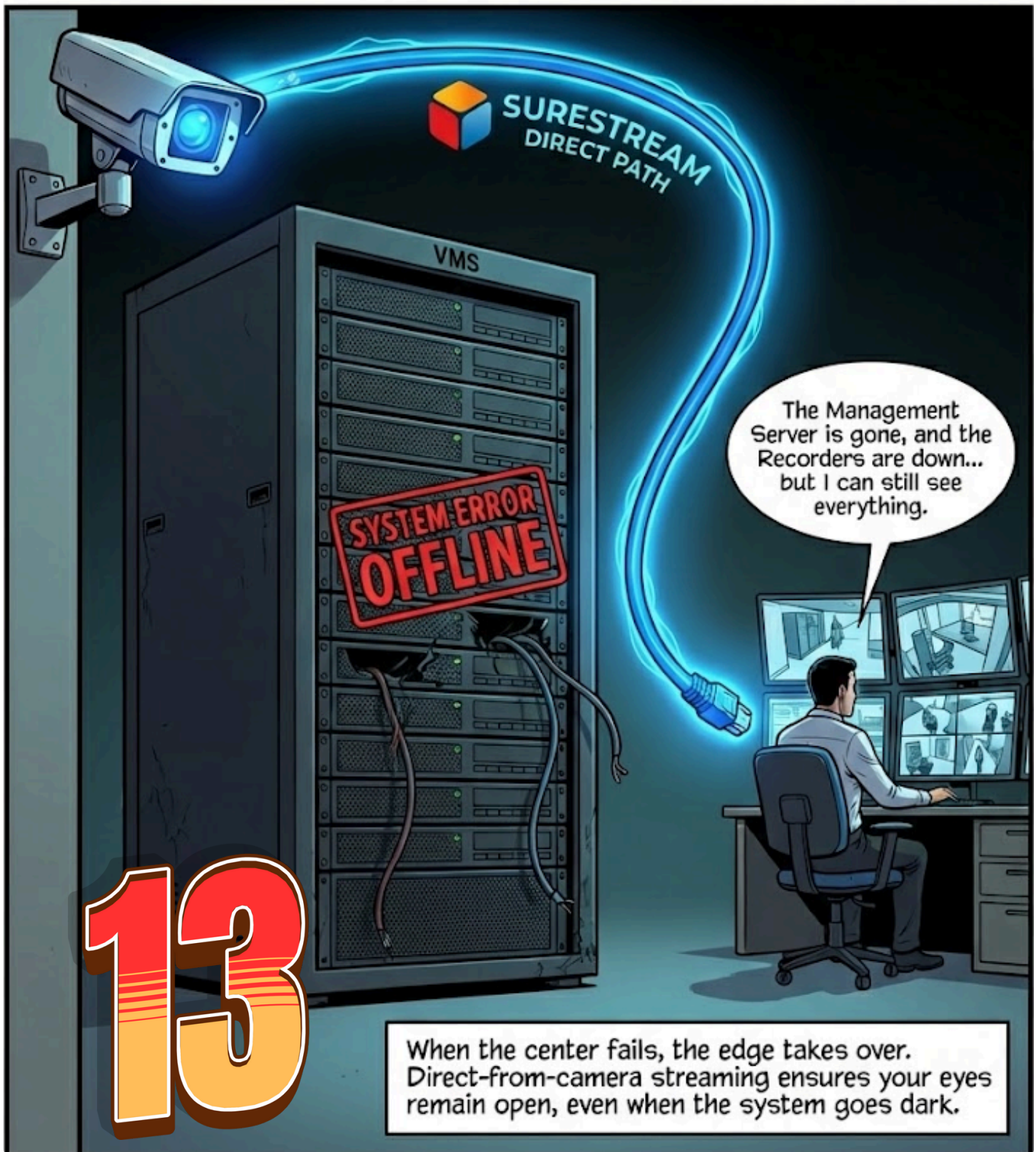


'THE UPDATE WINDOW'

When Data Center Video Security Can't Afford to Blink



The UnBlinking Eye



FIVE NINES VISIBILITY

A DATA CENTER CASE STUDY

THE CALM.

Phoenix, Arizona.
19:00 Hours.

In the data center, "downtime" is not a vocabulary word.

Perimeter secure.
Shift change is complete.

Quiet night.
Let's keep it that way.

INFRASTRUCTURE

BZZIT-KLAK!

VMS STACK

VMS OFFLINE.
CONNECTION LOST.

THE CRASH.

SERVER UNAVAILABLE.

SERVER UNAVAILABLE.

SERVER UNAVAILABLE.

I've lost the wall! Management Server is non-responsive. Recorders are gone.

I have door alarms going off in Sector 4, but I'm blind. I can't verify the threat.

We aren't blind, Maya. We planned for this.

CLICK.

SureStream

THE RESILIENCE.

Video is back! Direct streams from cameras.

SURESTREAM ACTIVE.
DIRECT FEED ESTABLISHED.

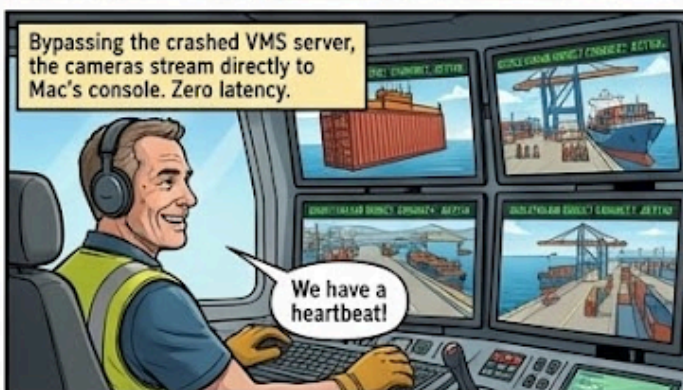
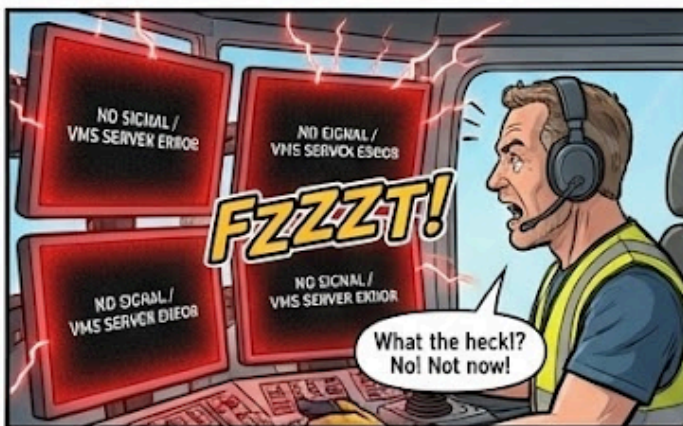
Wait—I still can't see the Executive Corridor cameras.

Correct. The VMS is down, but SureStream still honors your XProtect permissions. You only see what you're allowed to see.

Sector 4 verified. Just a cleaning crew propping a door. Incident cleared.

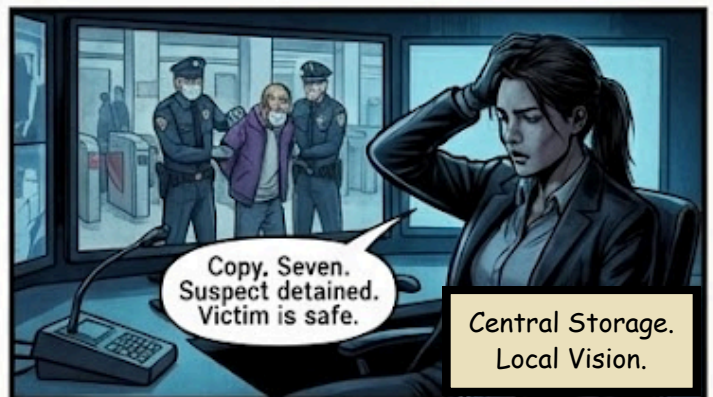
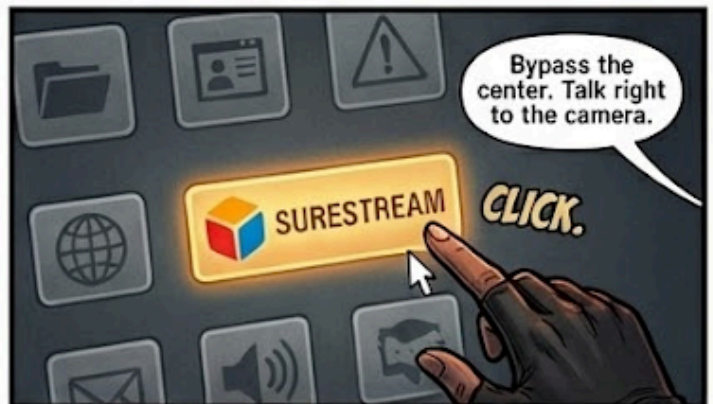
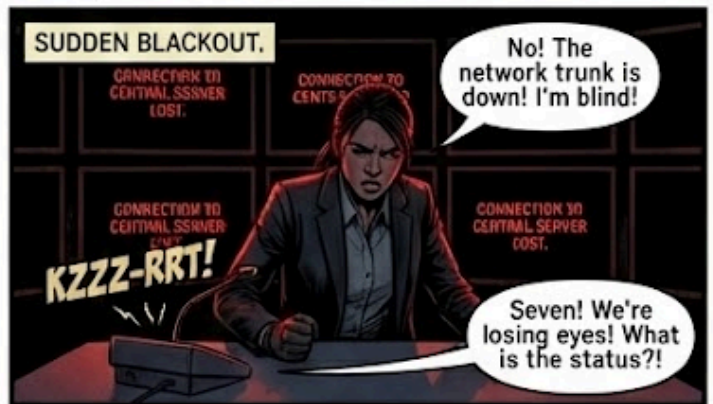
Good work. The servers can take their time rebooting. We're still watching.

THE CRANE KINGS & THE SURESTREAM SOLUTION



NO BLIND SPOTS

When the network severs, the only way out is through.



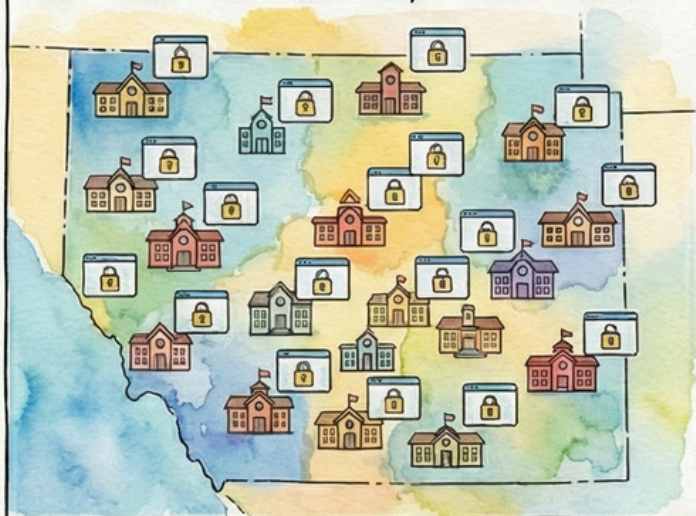
XPORT

17

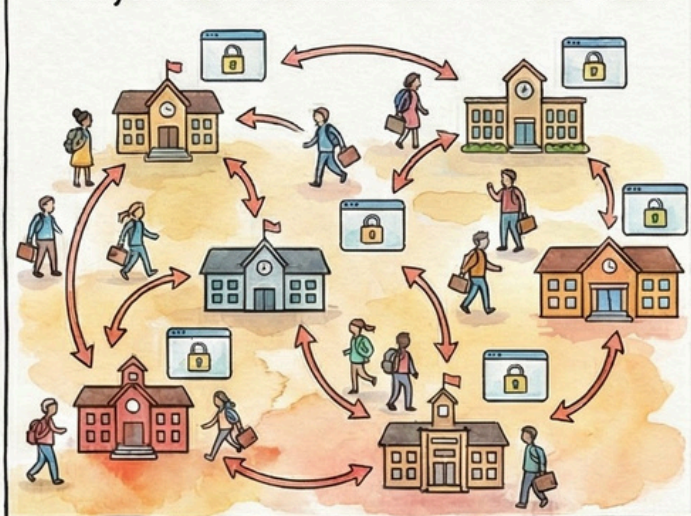
THE GREAT ESCAPE

ESCAPE FROM THE 23 SILOS: HOW ONE DISTRICT BROKE FREE

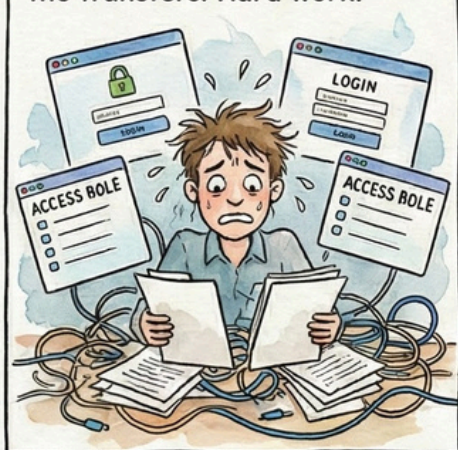
School district with 23 schools, each with its own VMS.



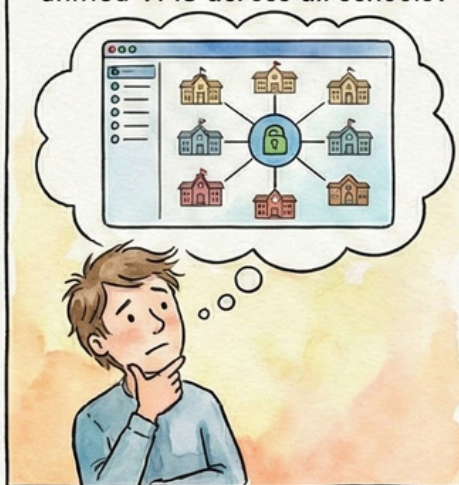
Each year staff is transferred between schools.



IT Admin is having to manage VMS roles each year to handle the transfers. Hard work!



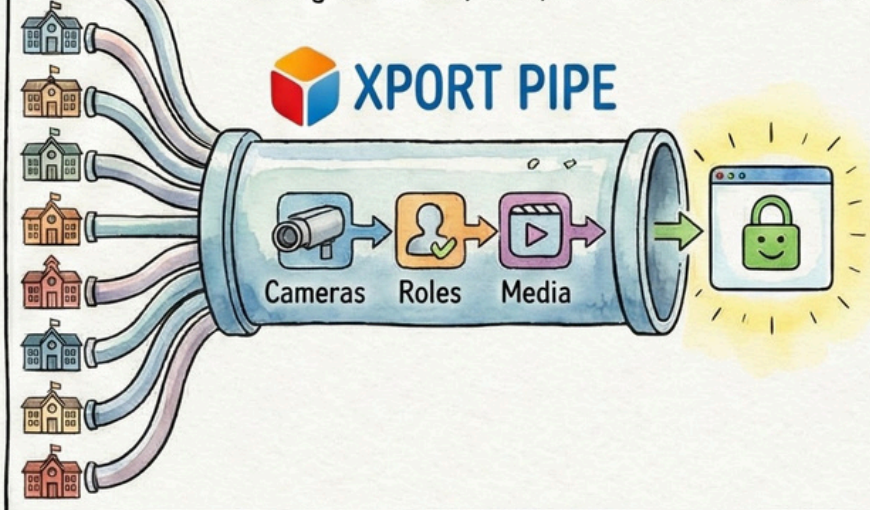
Would it not be better to have a unified VMS across all schools?



But consolidating sites is difficult. Each site can be an all day affair. Expensive, time consuming.



XPort to the rescue. In less than two hours per site, XPort merges cameras, roles, media to the central site.



XPort saved time and money. Happy IT team, happy school district.



From Lag to Live: The XPort Solution

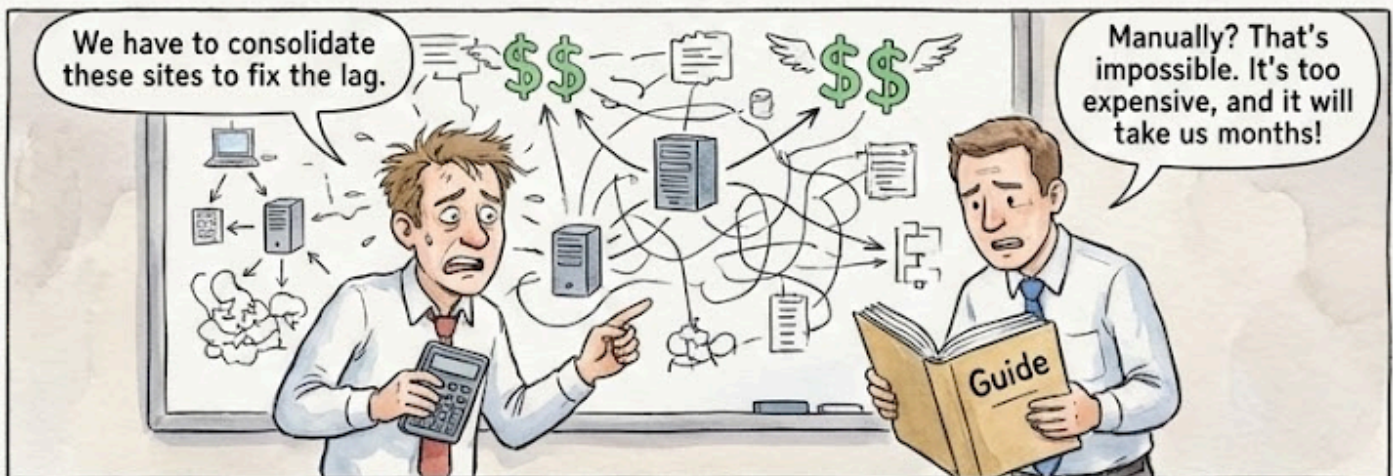


A logistics operator spans North America. Each distribution center runs its own child XProtect VMS, all of which are federated to a single US-based Parent Site.



I just need to check the dock in Vancouver... why does this take forever?

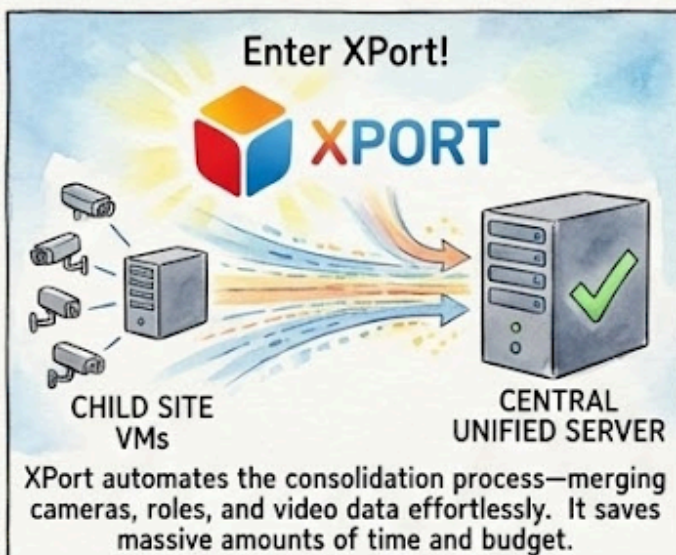
But the massive federated tree creates a bottleneck. For Central Security, logging in takes close to 10 minutes. It is a daily pain.



We have to consolidate these sites to fix the lag.

Manually? That's impossible. It's too expensive, and it will take us months!

The solution is to consolidate the child sites into the parent, but the manual process is grueling, costly, and slow.



Enter XPort!

XPORT

CHILD SITE VMs

CENTRAL UNIFIED SERVER

XPort automates the consolidation process—merging cameras, roles, and video data effortlessly. It saves massive amounts of time and budget.

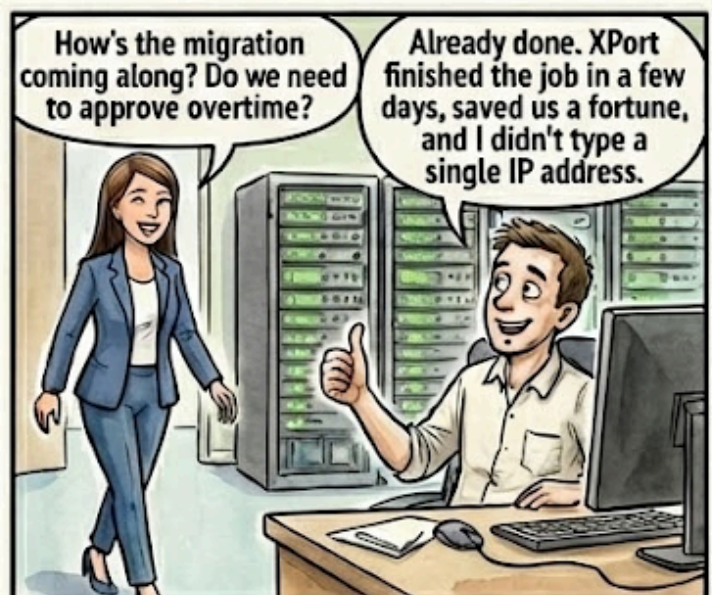
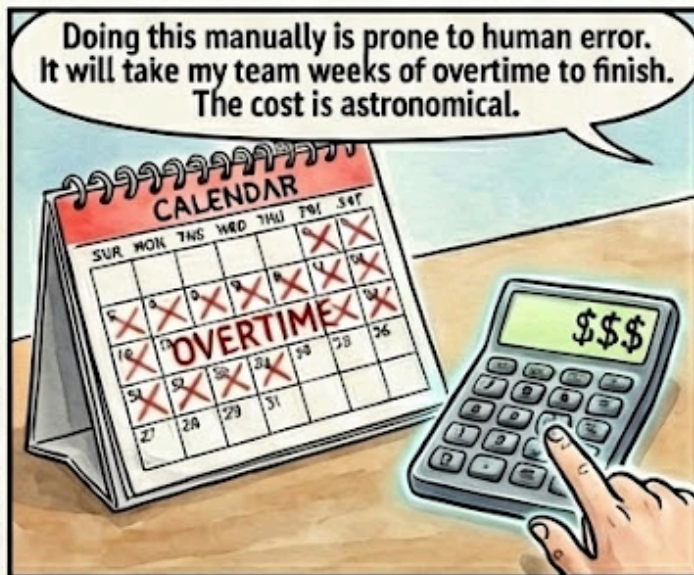
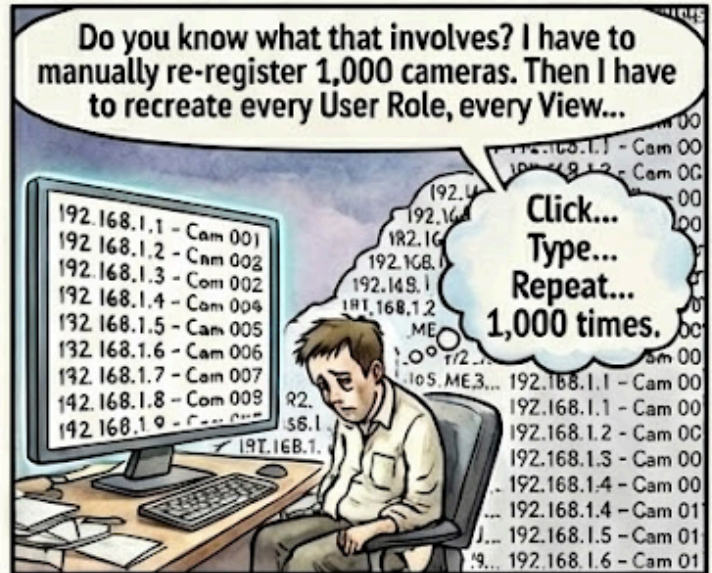


I'm in! Instant access.

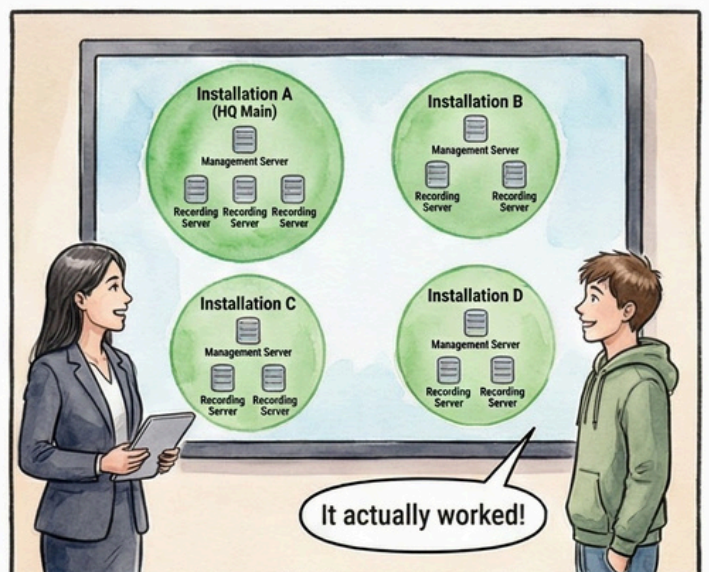
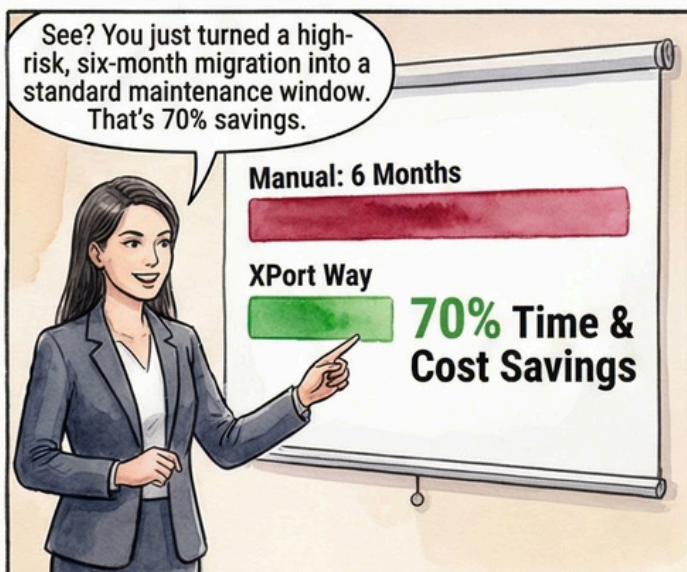
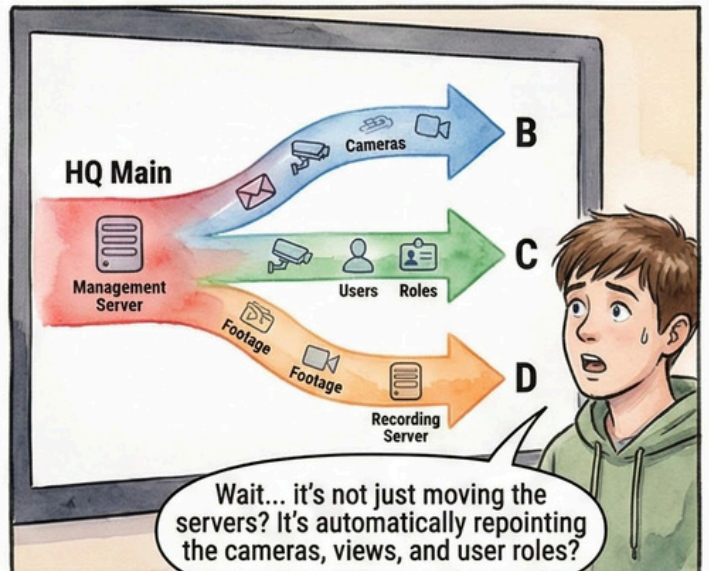
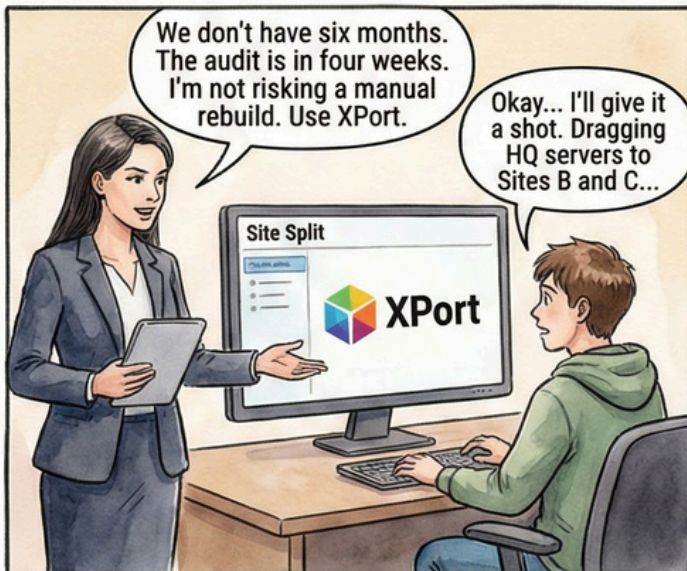
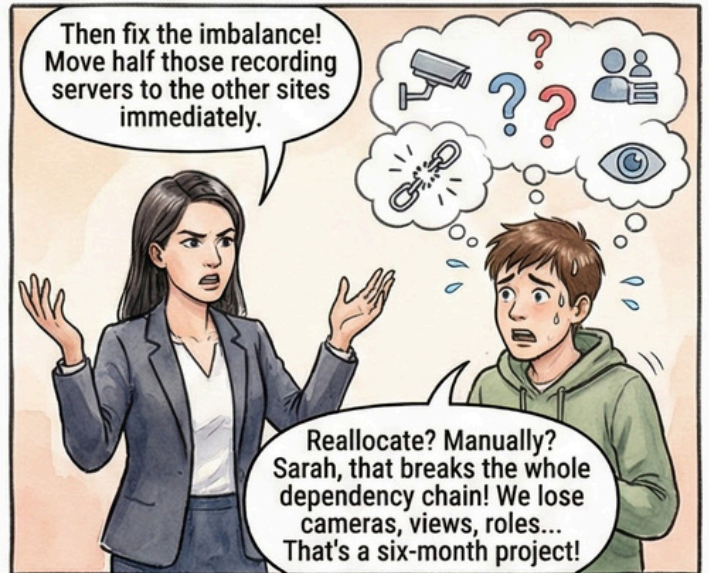
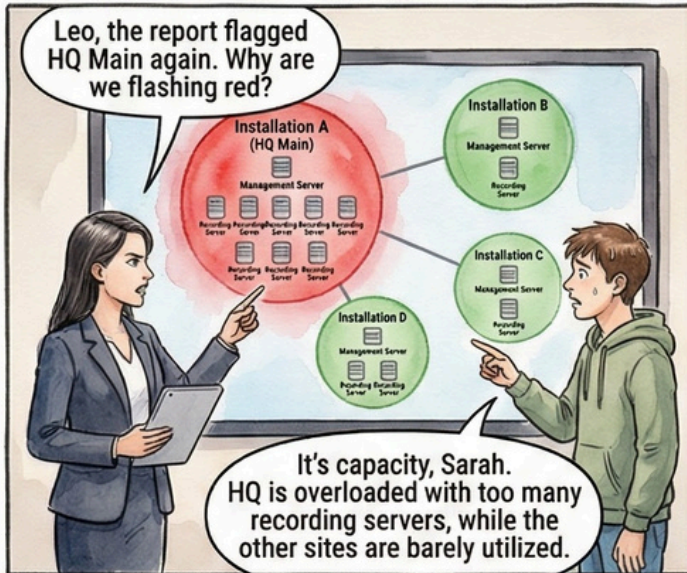
Login Time: 3 Seconds

The Central Security team enjoys lightning-fast logins and a unified, secure network.

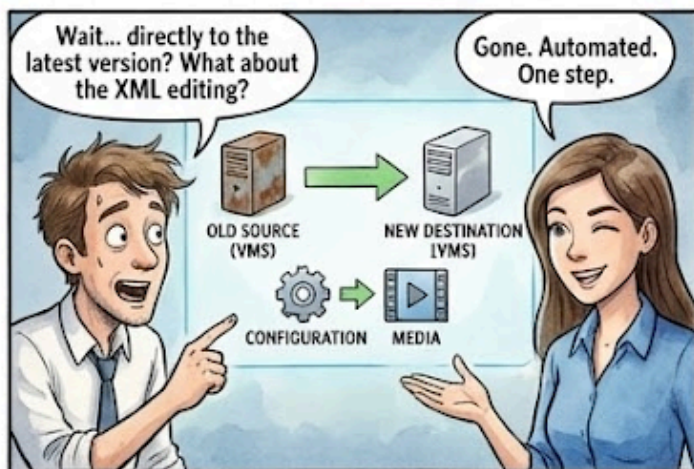
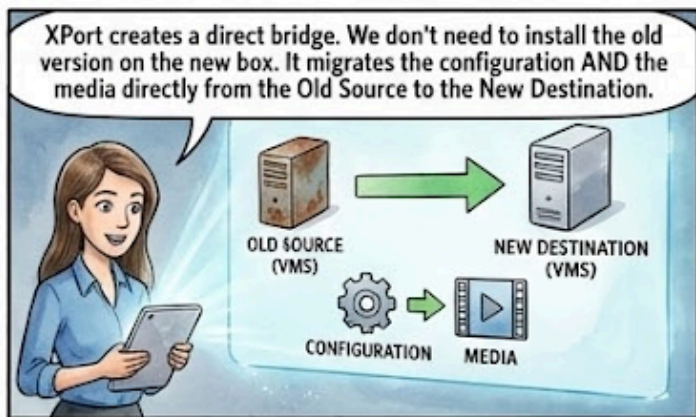
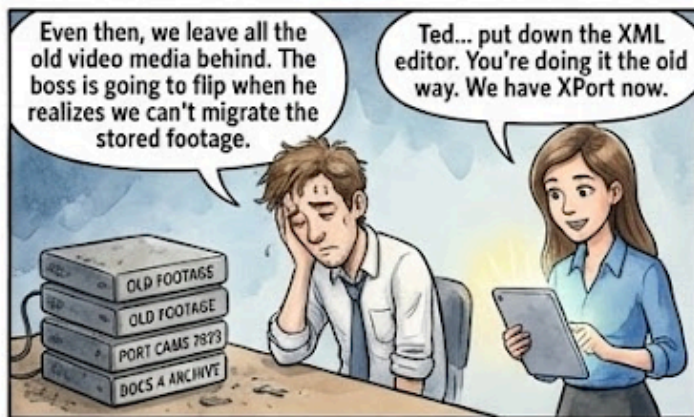
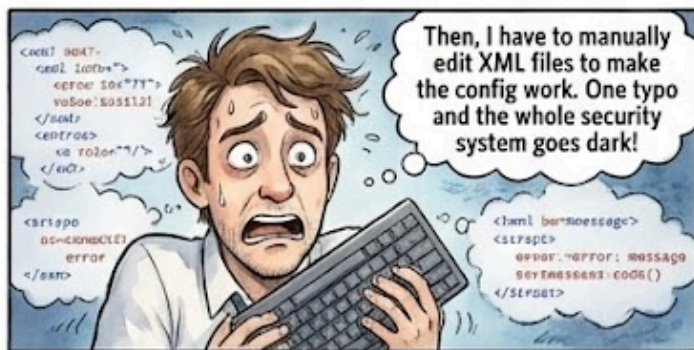
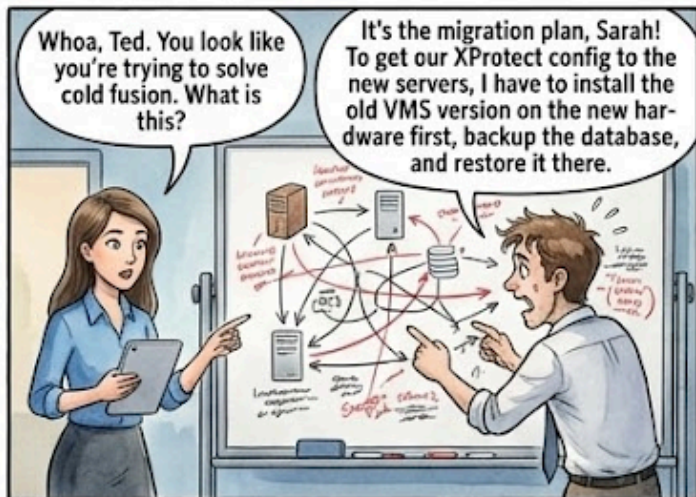
Don't Move it Manually: XPort it.



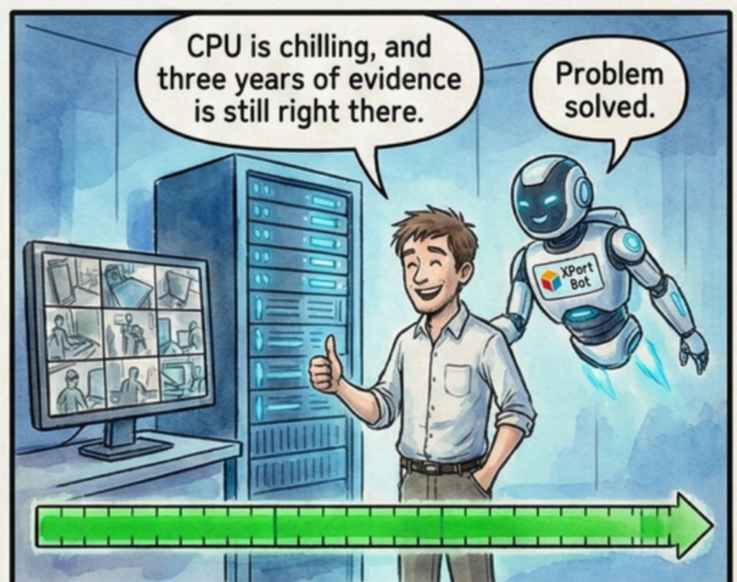
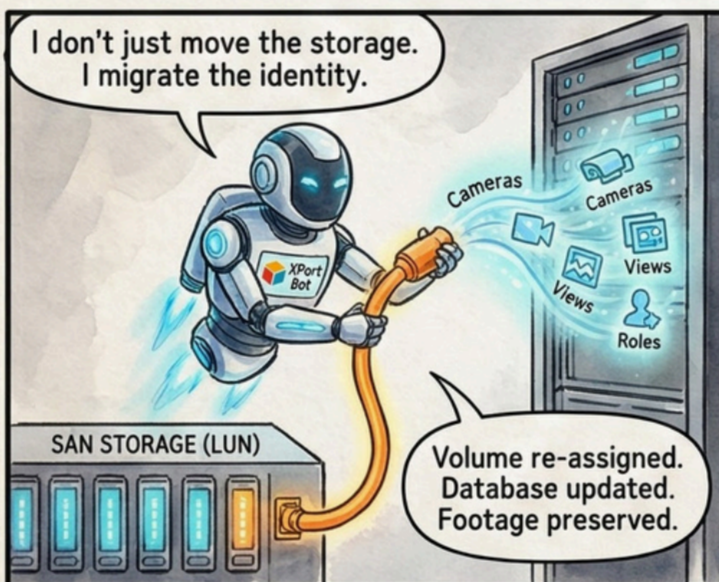
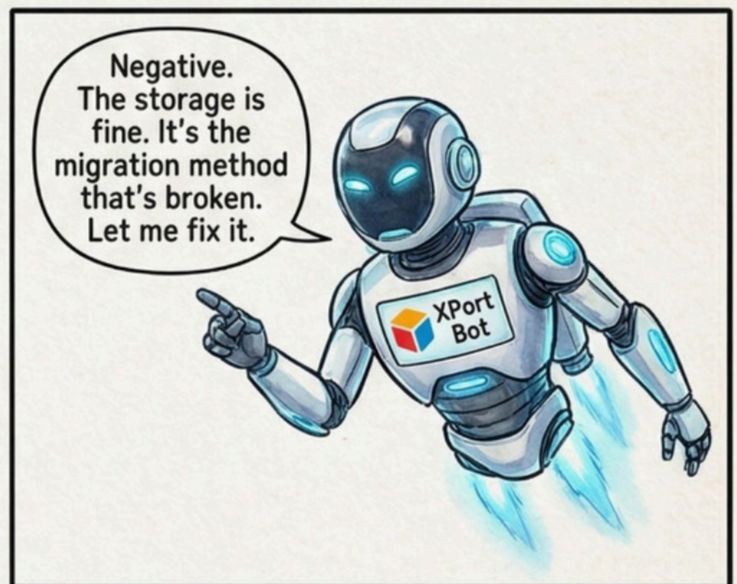
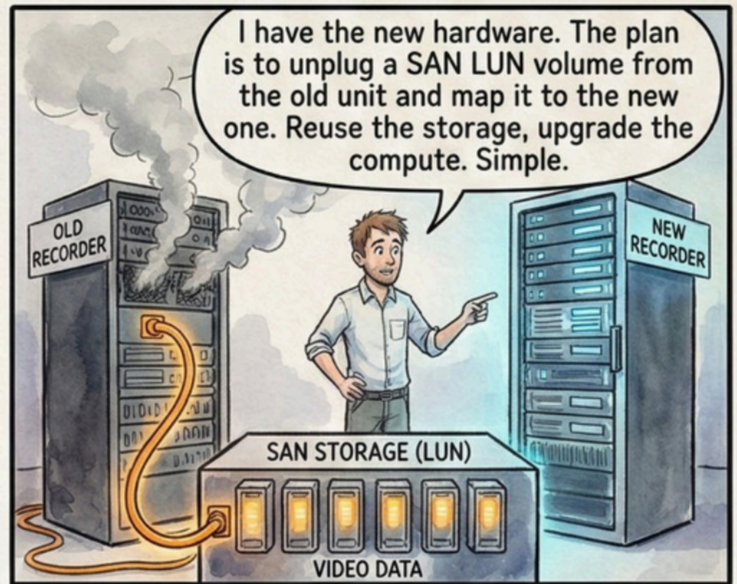
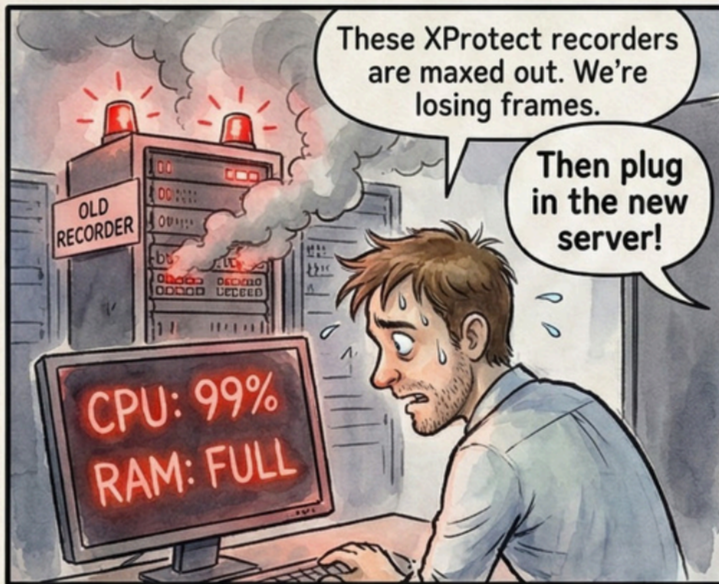
The Smart Split: Restructuring Without the Risk



No Cargo Left Behind



The Great Server Rebalancing Act





Backup, Restore, Move on.

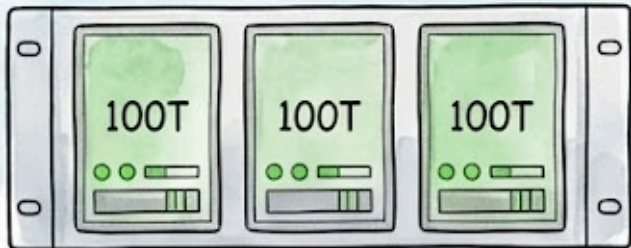


THE VAULT

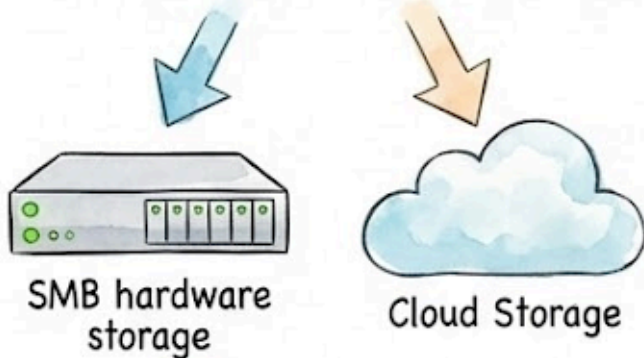
24

WHEN A DISK FAILS

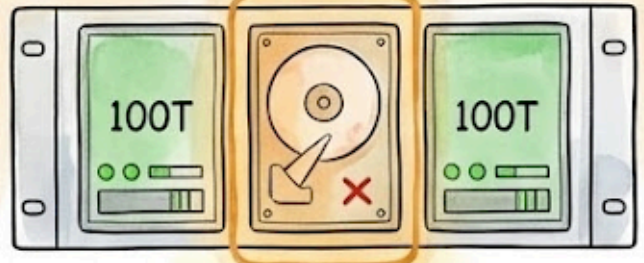
A storage recovery story.



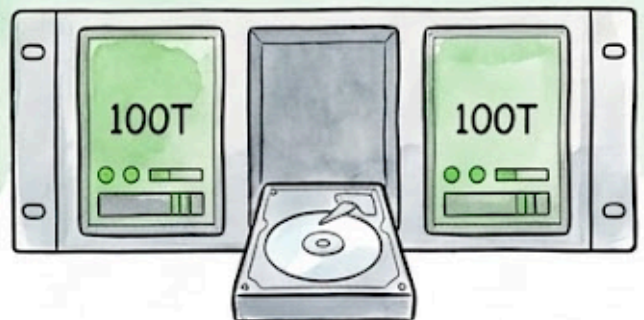
Video is being recorded normally.



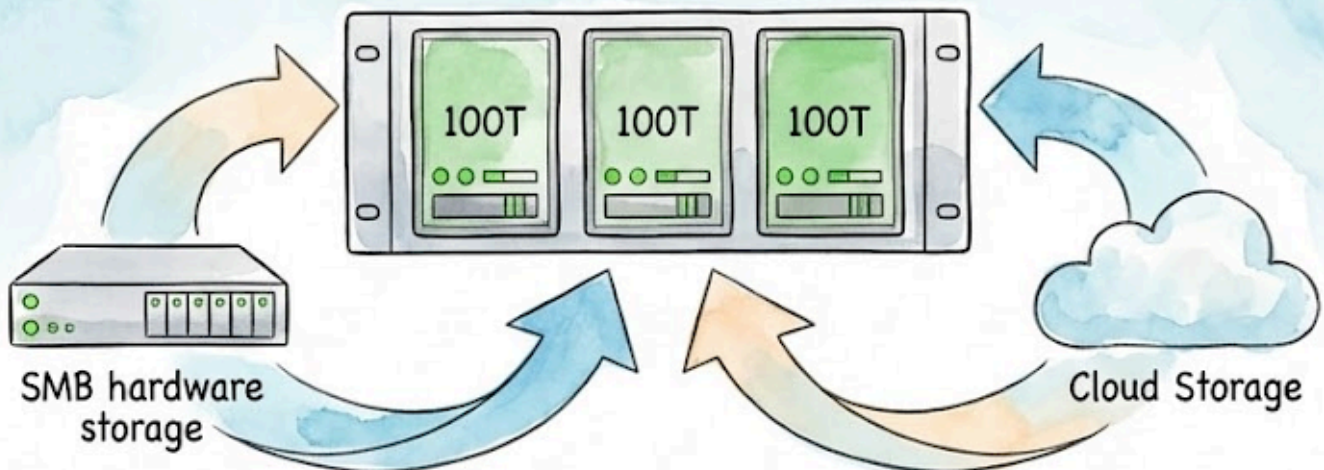
Nidhi mirrors the video storage.



One disk fails.



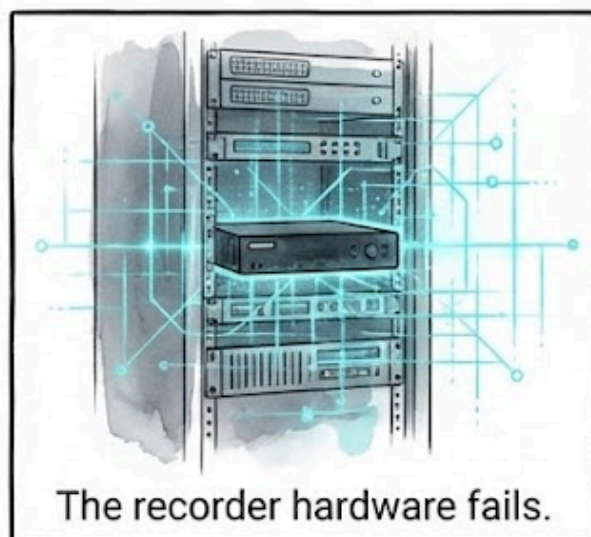
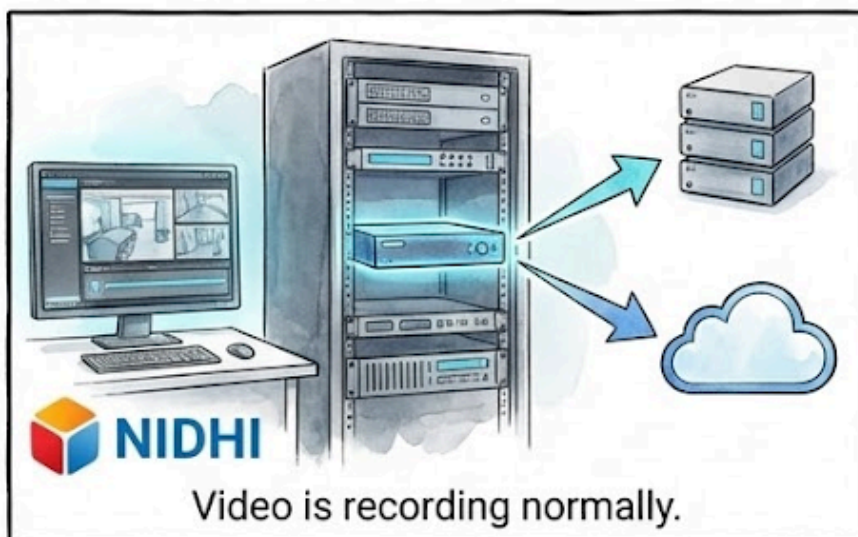
The failed disk is replaced.



Nidhi restores footage.

THE RECORDER FAILURE

And the uneventful recovery

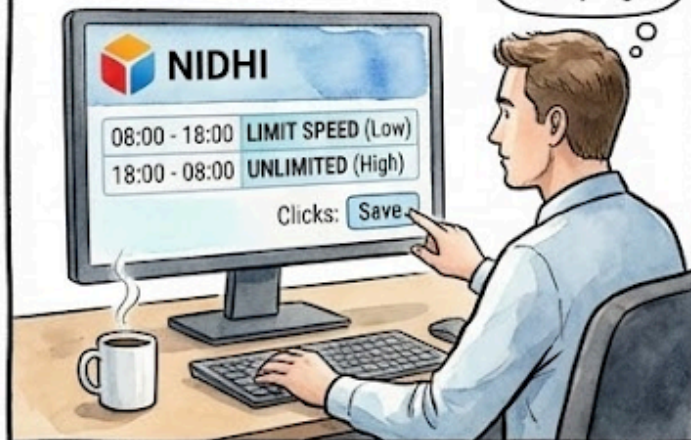


THE BANDWIDTH BALANCING ACT

How Nidhi keeps data safe without slowing you down.

Ted configures the Nidhi schedule.

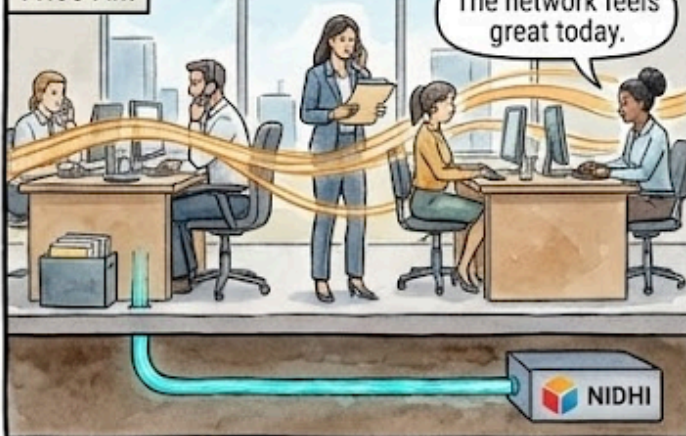
Gentle by day,
fast by night.



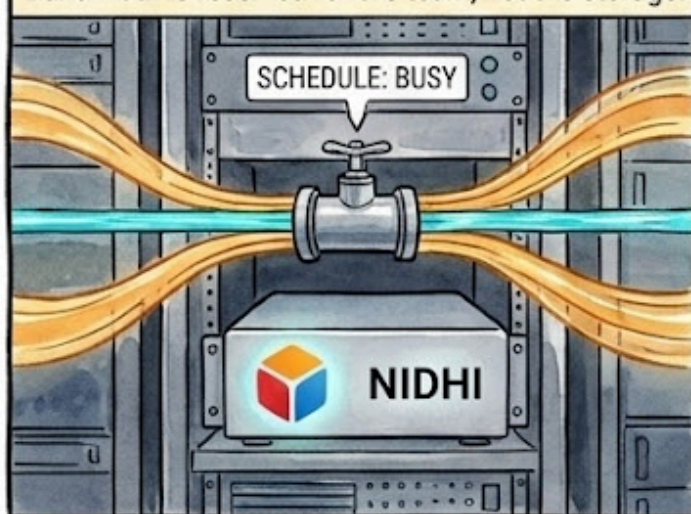
During peak hours, Nidhi throttles the backup speed.

11:00 AM

The network feels
great today.

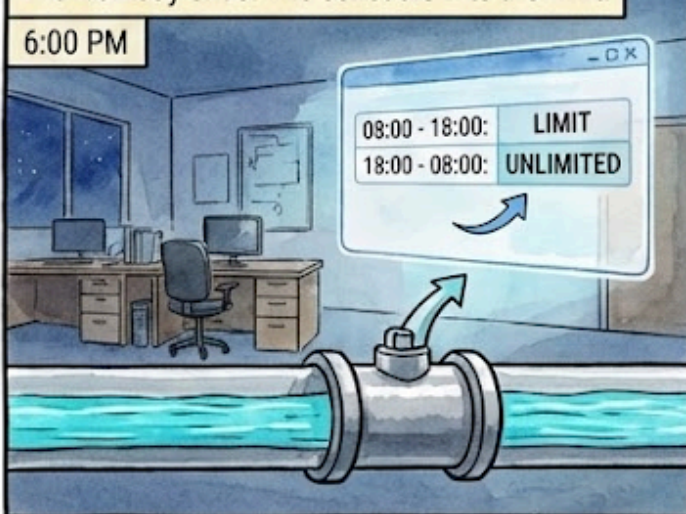


Bandwidth is reserved for the team, not the storage.



The workday ends. The schedule lifts the limit.

6:00 PM



Overnight, Nidhi opens the floodgates to secure every byte.

Atlas: The Secure Edge Architecture



THE COST OF THE EDGE

The Unseen Hardware Tax on Mobile Video

Modern police vehicles rely on multiple cameras for visibility and evidence.

To make video work, every vehicle is equipped with a dedicated VMS recorder.

In-vehicle VMS / DVR box
Storage drives
Cooling vents
Cellular router
Heavy power cabling

This single box adds thousands of dollars to every vehicle.

Hardware
Storage
Installation
Maintenance

It must be installed, powered, cooled, and maintained.

What if patrol vehicles did not need an in-car VMS box at all?

ATLAS runs as a container on the vehicle's cellular router.

It replaces the in-vehicle VMS hardware.

Less hardware. Less power. Fewer failure points.

Removing the VMS box saves thousands per vehicle.

Lower infrastructure cost makes large fleets practical to deploy.

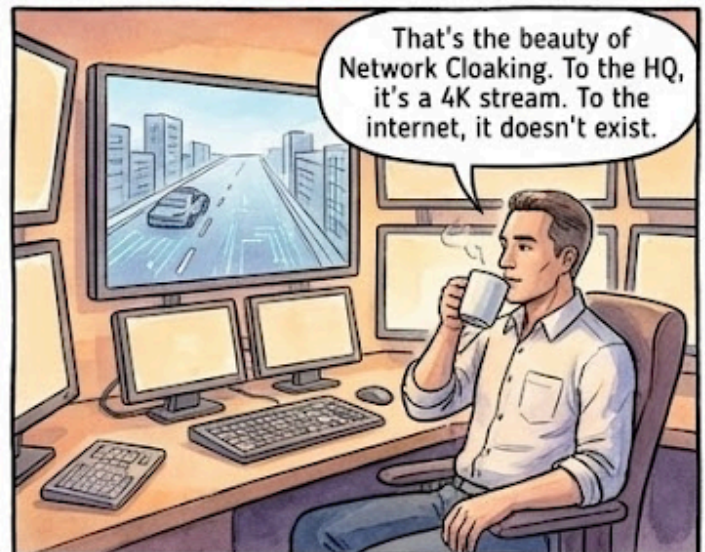
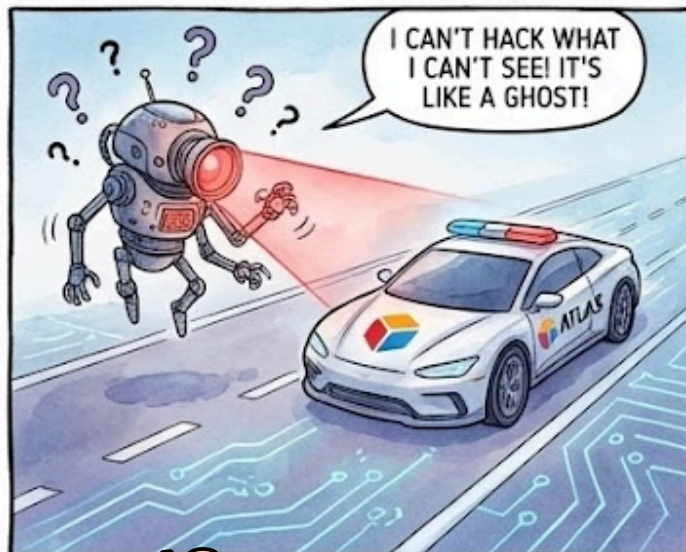
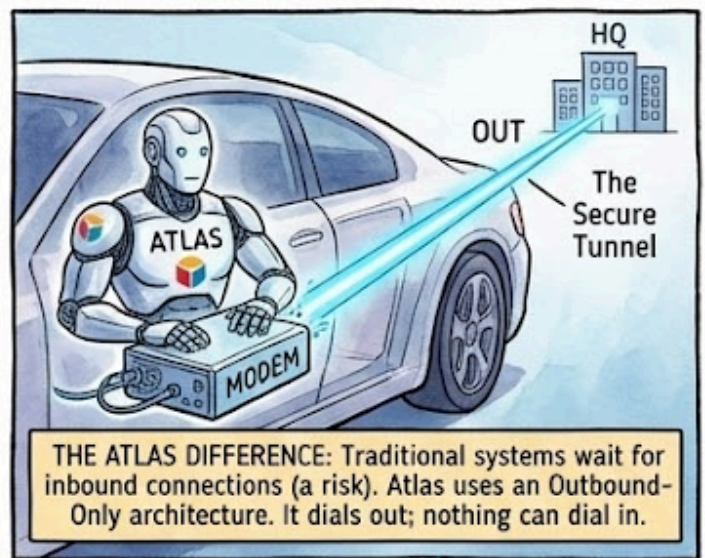
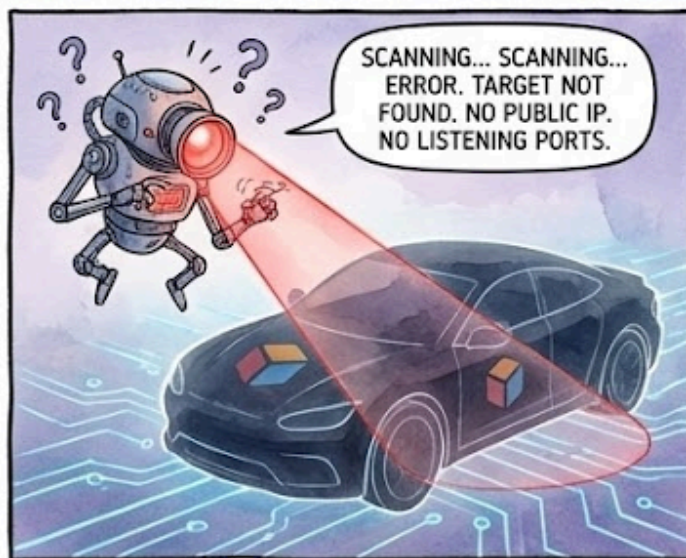
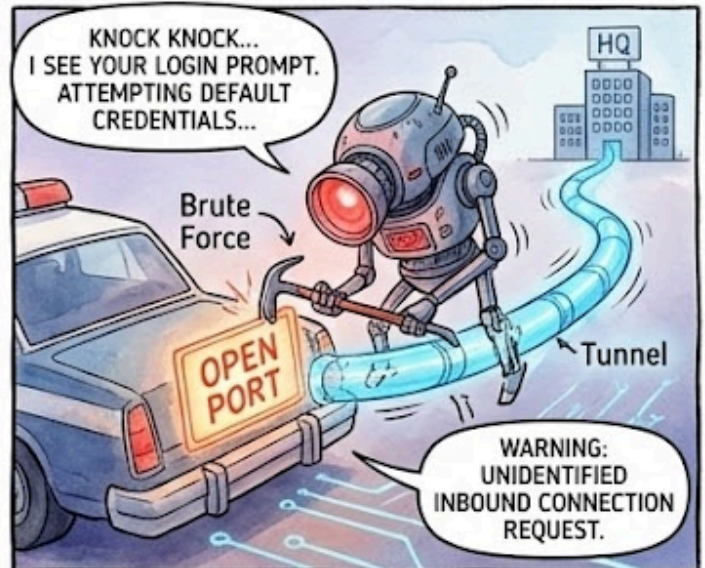
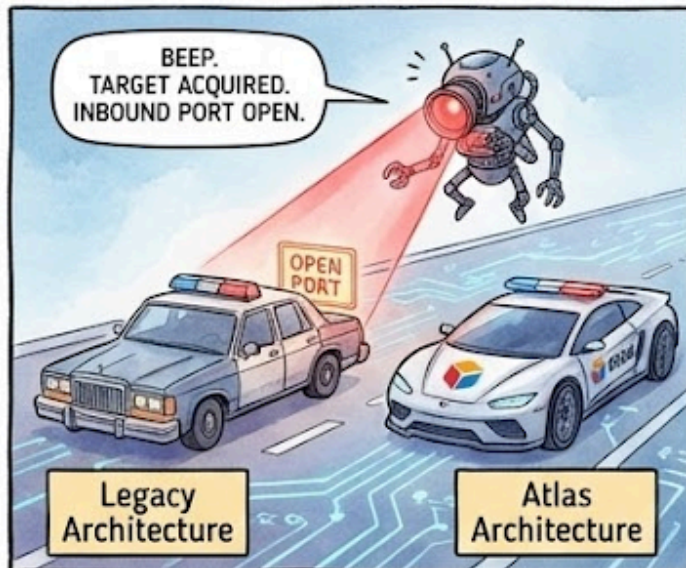
ATLAS removes the edge VMS box.



VEGA25.COM

THE INVISIBLE EDGE

You can't hack what you can't see

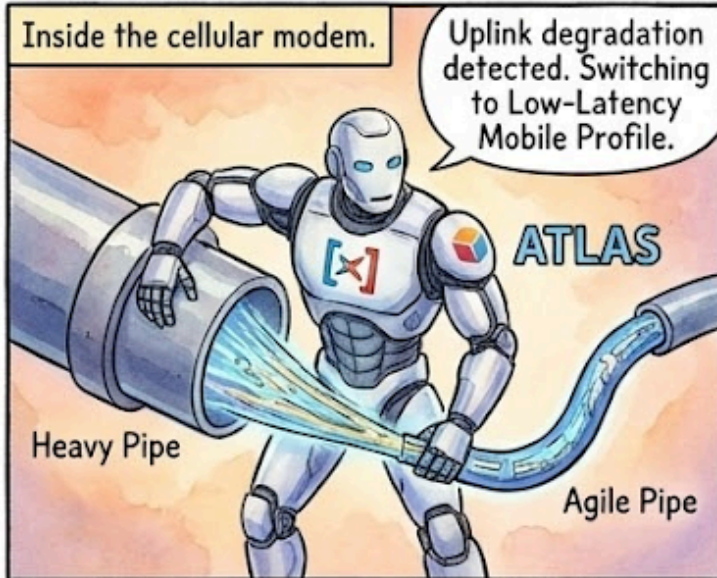


The Dual-Stream Advantage

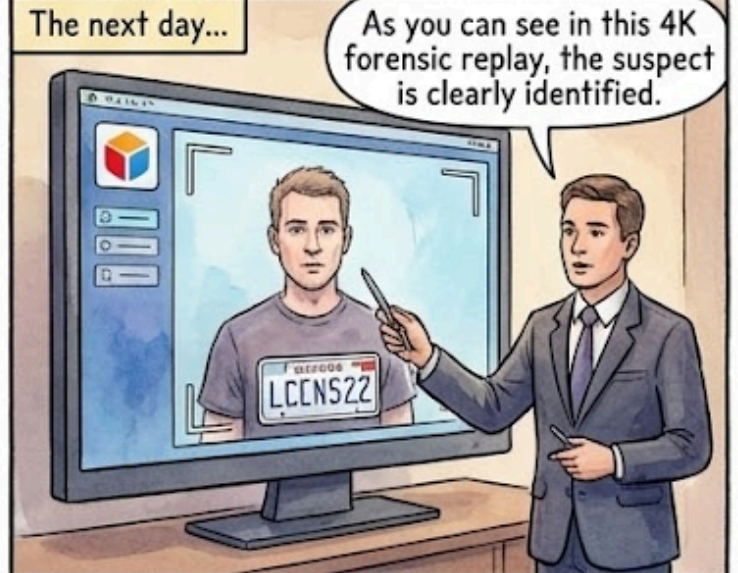
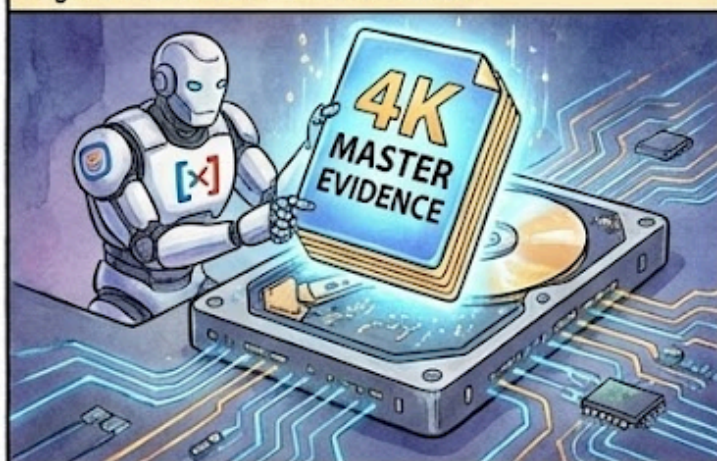
The Reality: Cellular bandwidth is volatile. 50Mbps one second, 500Kbps the next.



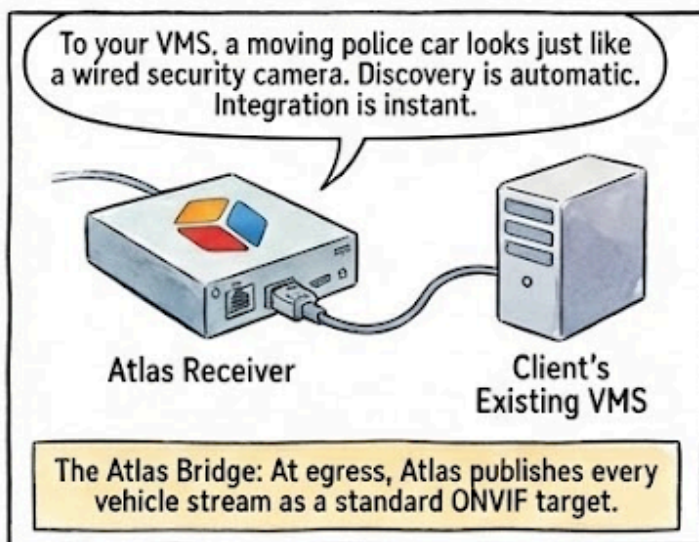
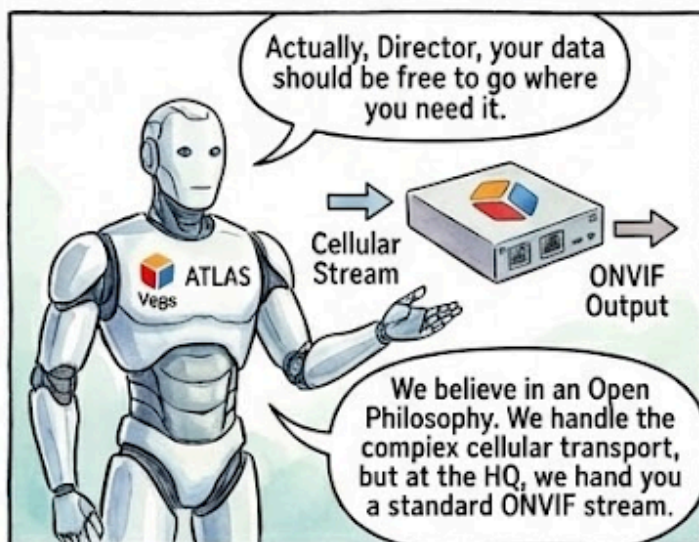
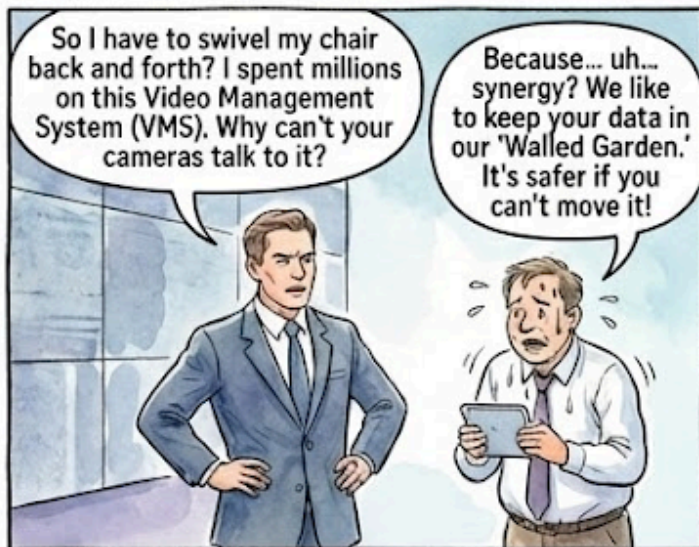
Inside the cellular modem.

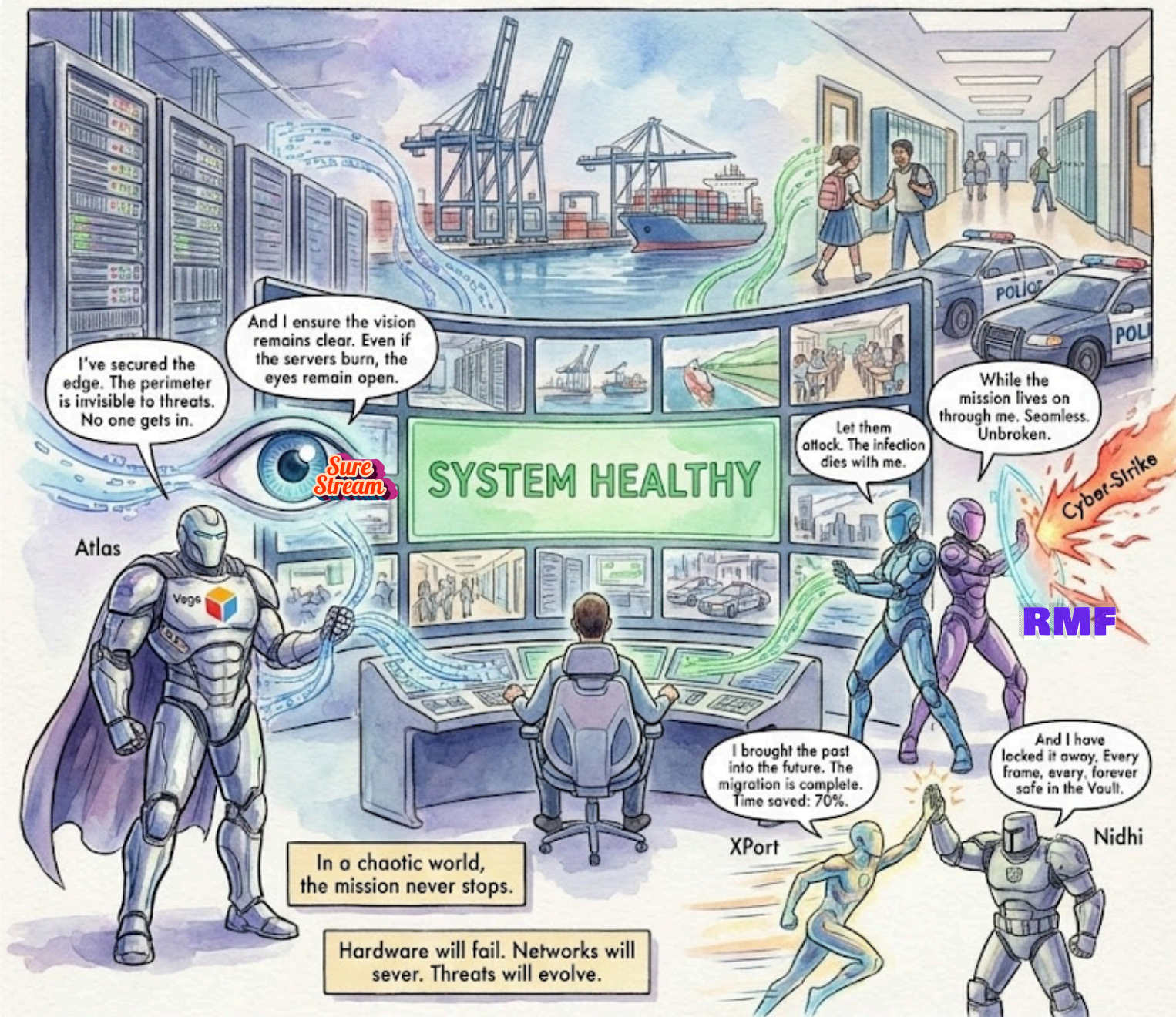


The Atlas Difference: We never compromise the evidence. High-quality recording continues locally, regardless of the network status.



The universal Translator





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THE IMMUNE SYSTEM FOR VIDEO INFRASTRUCTURE.



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