

S.M.A.R.T.

Proactive Video Management Technology



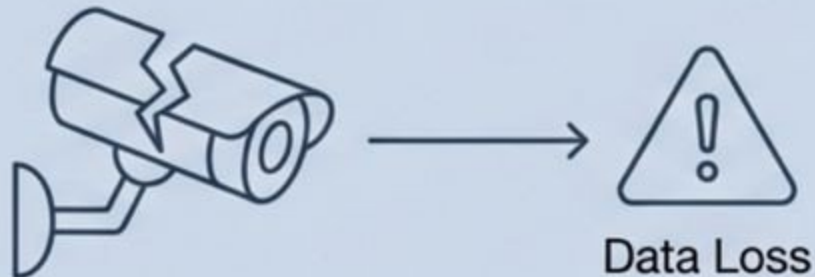
Overview

Shifting from Reactive Troubleshooting to Proactive System Governance

The Challenge & Flaw

Modern deployments are too complex for manual checks. Traditional VMS relies on reactive maintenance, waiting for service degradation.

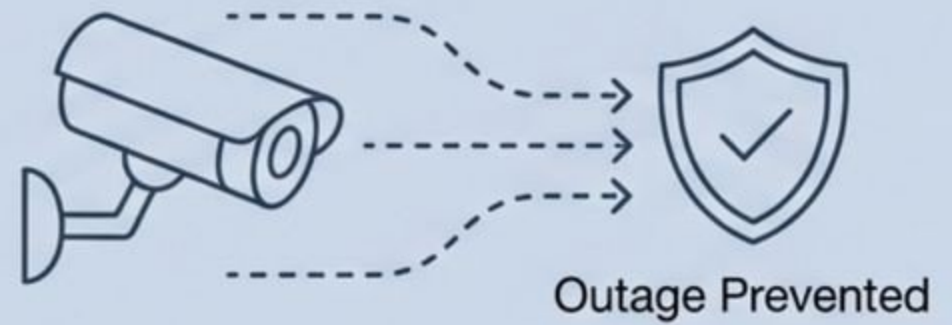
Reactive



The Solution

Embed system awareness directly into the VMS layer for continuous visibility, without relying on external or manual inspection.

Proactive



Features

The Four Pillars of Intelligent System Awareness



Self-Monitoring

Real-time tracking of CPU utilization, memory usage, disk health, recording status, and connectivity latency.



Analysis

Correlating performance trends to detect gradual storage degradation, increasing write latency, or network instability early.



Reporting

Delivering actionable system logs, historical graphs, and summarized health overviews tailored for technical and managerial roles.



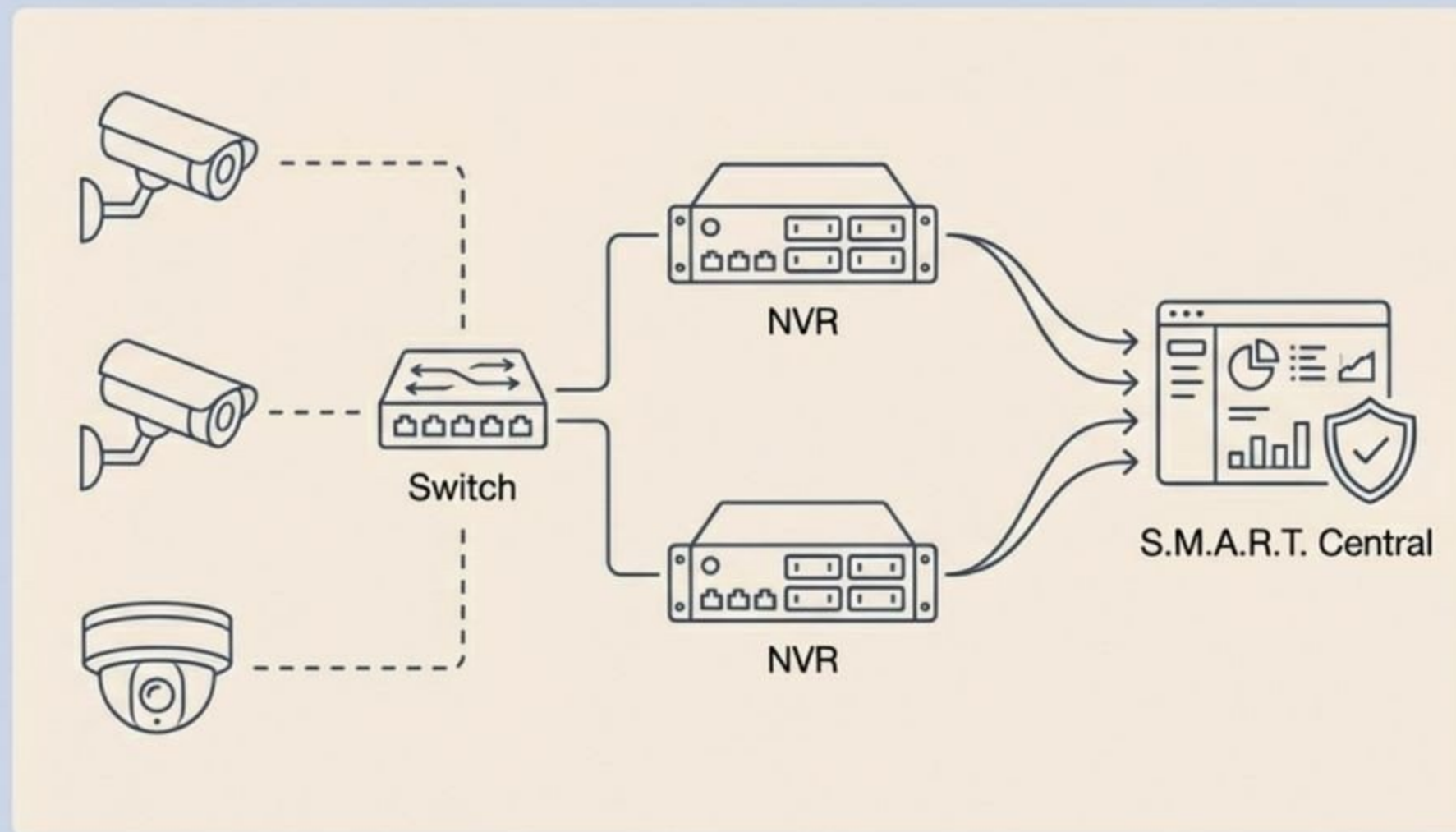
Tracking

Maintaining long-term records of incidents and resolution timelines to measure MTTR and evaluate infrastructure resilience.

Architectures

Telemetry Flow Across Complex Topologies

- Embedded directly into the VMS layer.
- Collects telemetry automatically from edge devices, across the network, into recording servers.
- Centralizes intelligence to differentiate isolated incidents from systemic architectural issues.



Applications

Target Vertical Markets for High-Availability Video



Critical Infrastructure & Utilities

Power plants and water facilities require uninterrupted coverage; detects storage degradation early.



Transportation & Smart Mobility

Airports and highways; prevents NVR failures during peak traffic for incident reconstruction.



Multi-Site Enterprises & Retail Chains

Centralized oversight avoids surprise outages and reduces manual site visits.



Government, Public Safety & Compliance

Auditable, complete video evidence to meet strict legal and audit requirements.



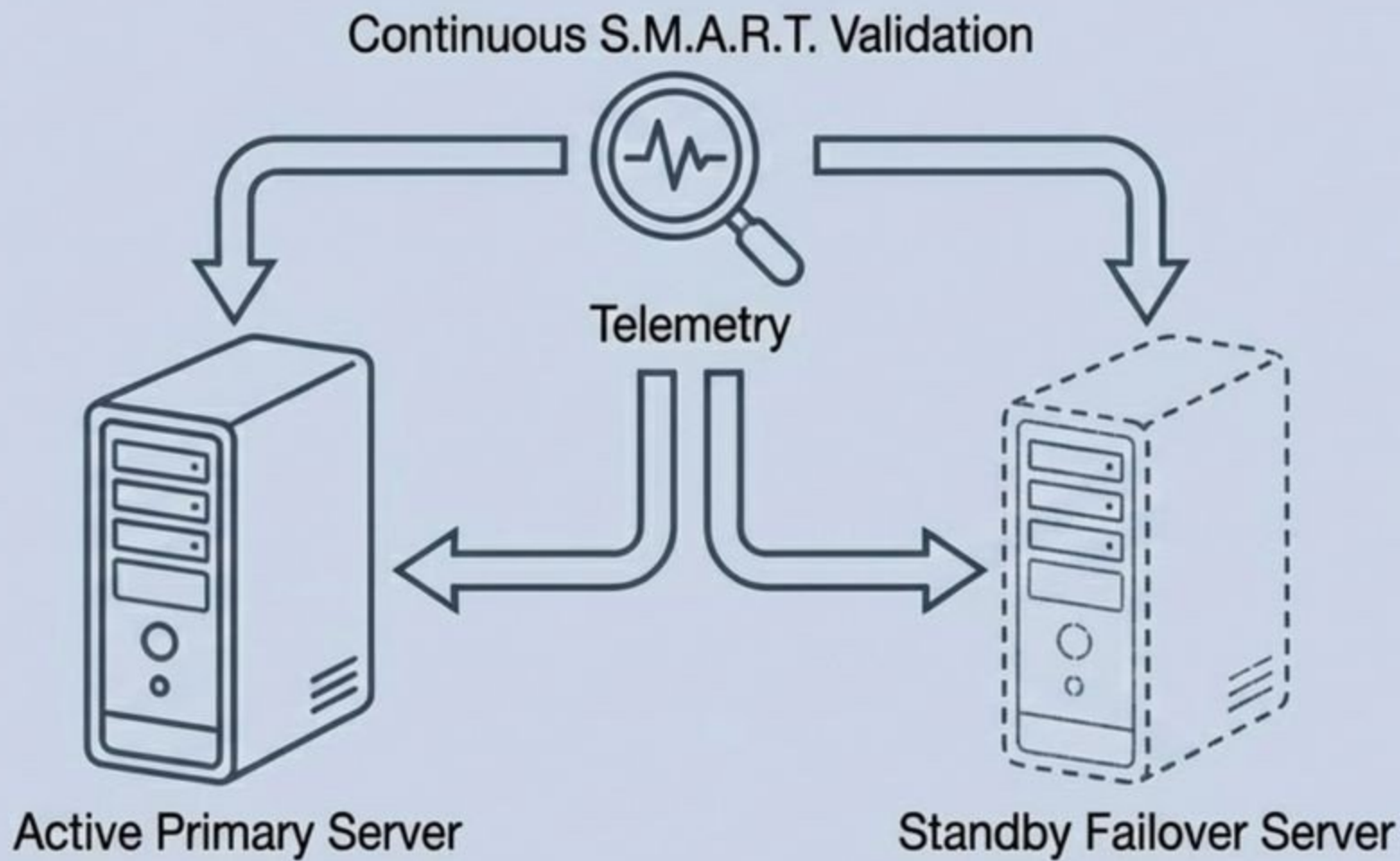
Mission-Critical Projects

Data centers and industrial plants demanding continuous operational validation.

Solutions

Validating Redundancy and Ensuring Failover Readiness

- Works seamlessly alongside redundancy and backup server systems.
- Ensures that failover mechanisms, backup recordings, and standby NVRs are configured and continuously verified as healthy.
- Transforms high-availability from a static architectural design into a continuously validated operational state.



Product Matrix

S.M.A.R.T.-Enabled NVR & Server Ecosystem

		
Enterprise Standalone NVRs (ZNR Series)	Core Network Video Recorders (KNR Series)	Mobile NVRs (MNR Series)
High capacity, multi-site scalable architectures.	Essential surveillance operations.	Transportation and transit-ready deployments.
• ZNR-126 • ZNR-129 • ZNR-222P (Built-in PoE) • ZNR-224 • ZNR-424 • ZNR-425 • ZNR-429 • ZNR-429-32ch (32-Channel) • ZNR-431	• KNR-120 • KNR-121 • KNR-220P (Built-in PoE) • KNR-420 • KNR-421	• MNR-402P (Built-in PoE) • MNR-403P (Built-in PoE)

Comparison

Selecting the Right Hardware for Your Deployment



ZNR Series (Enterprise)

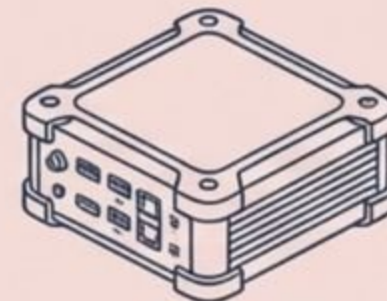
Ideal for multi-site retail and large corporate campuses. Built for maximum scalability and centralized S.M.A.R.T. oversight.

Includes options up to 32 channels.



KNR Series (Core)

Best for standard commercial security applications. Reliable core recording with PoE-integrated models available (e.g., KNR-220P) to reduce switch hardware costs.



MNR Series (Mobile)

Purpose-built for Transportation & Smart Mobility. Built-in PoE (MNR-402P/403P) ensures camera stability in transit environments while providing vital system health telemetry back to operators.

Summary

Delivering Predictable Performance & Proven Reliability



Anticipate and Prevent

Eliminate unplanned downtime by acting on predictive analytics rather than reacting to missing footage.



Defend Evidence Integrity

Maintain long-term system behavior records to meet legal obligations and strict audit requirements.



Lower Operational Costs

Reduce emergency truck rolls and manual site visits by prioritizing maintenance based on actual system risk.

Contact Us

Partner with ACTi Today



Website: www.acti.com



Email: sales@acti.com



Phone: +886-2-2656-2588 / +1-866-410-ACTi (2284)



Support: Customer Helpdesk & Project Registration available online.

**Register today for Member-Exclusive Pricing and Project Protection.
No MOQ or Quota Limits guaranteed when buying directly from ACTi.**