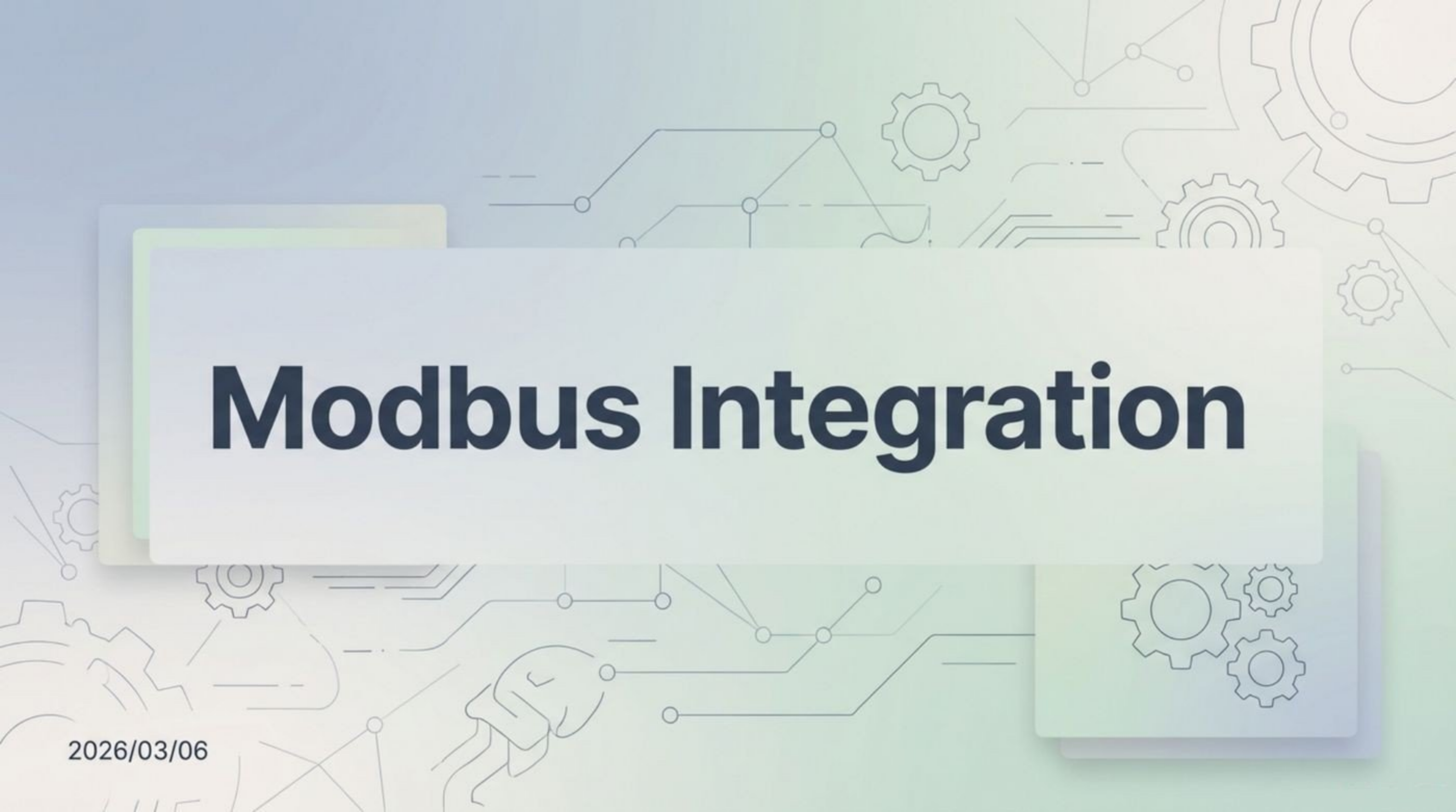


The background features a light green and blue gradient with faint, stylized line art of gears and circuitry. Several semi-transparent, overlapping rectangular shapes in shades of green, yellow, and blue are layered behind the main text.

Modbus Integration

2026/03/06

Overview

Evolving VMS into Active Operational Intelligence

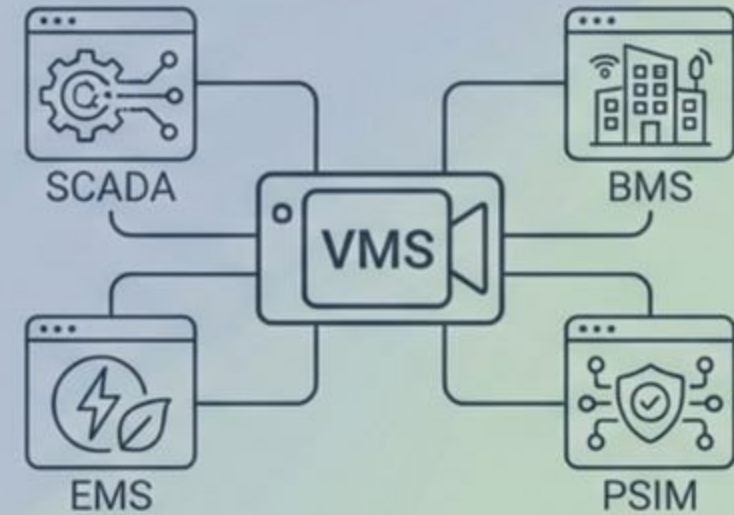
Past



Passive video-recording platforms.



Present



Active event and operational intelligence systems.

Modbus TCP is one of the most widely deployed industrial communication protocols. Integrating VMS with these higher-level parent systems via Modbus allows organizations to achieve real-time event signaling, alarm synchronization, and operational automation—without introducing proprietary middleware or complex APIs.

Features

Modbus Adapter Data Exchange Capabilities

Get status from NVR 3



1. **Camera network loss**
2. Camera disk write failure
3. System disk not found

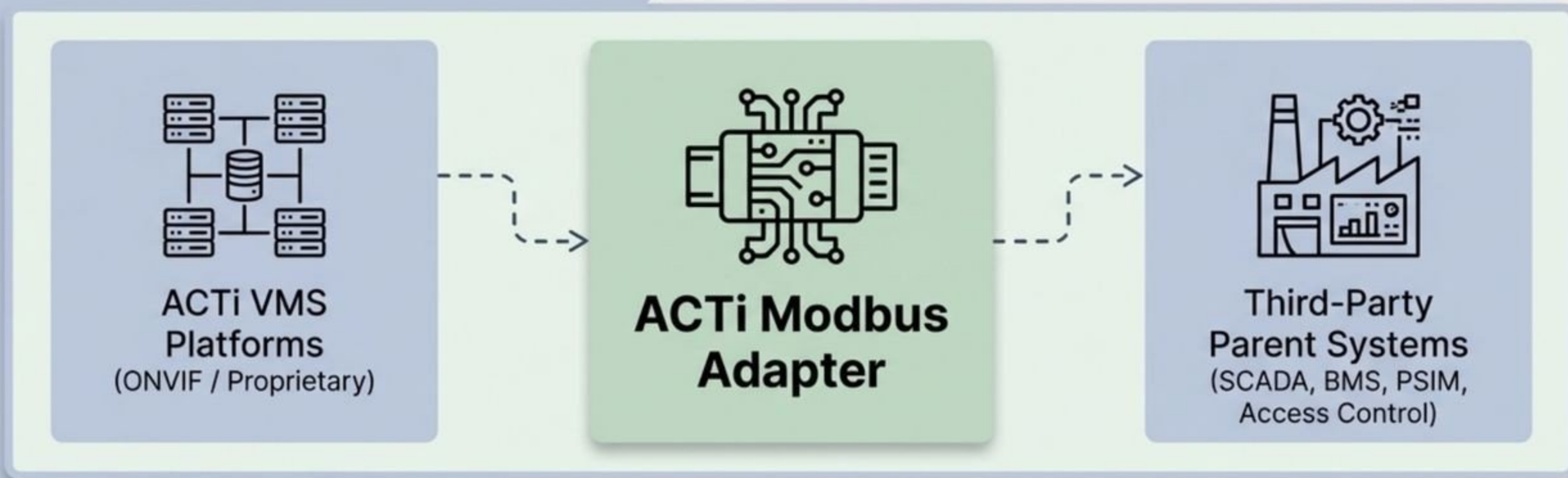
Set status to NVR 3



1. **Camera access allowed**
2. Camera access denied
3. Camera access unknown
4. Camera alarm
5. Camera panic alarm

Architectures

Bridging the VMS and Parent Systems



**No need to modify the VMS system.
The adapter acts as a seamless bridge.**

Applications

Transforming Video into a Real-Time Operational Sensor



Industrial

VMS functions as a real-time operational and safety sensor.



Utility

VMS functions as a real-time operational and safety sensor.



Transportation

VMS functions as a real-time operational and safety sensor.

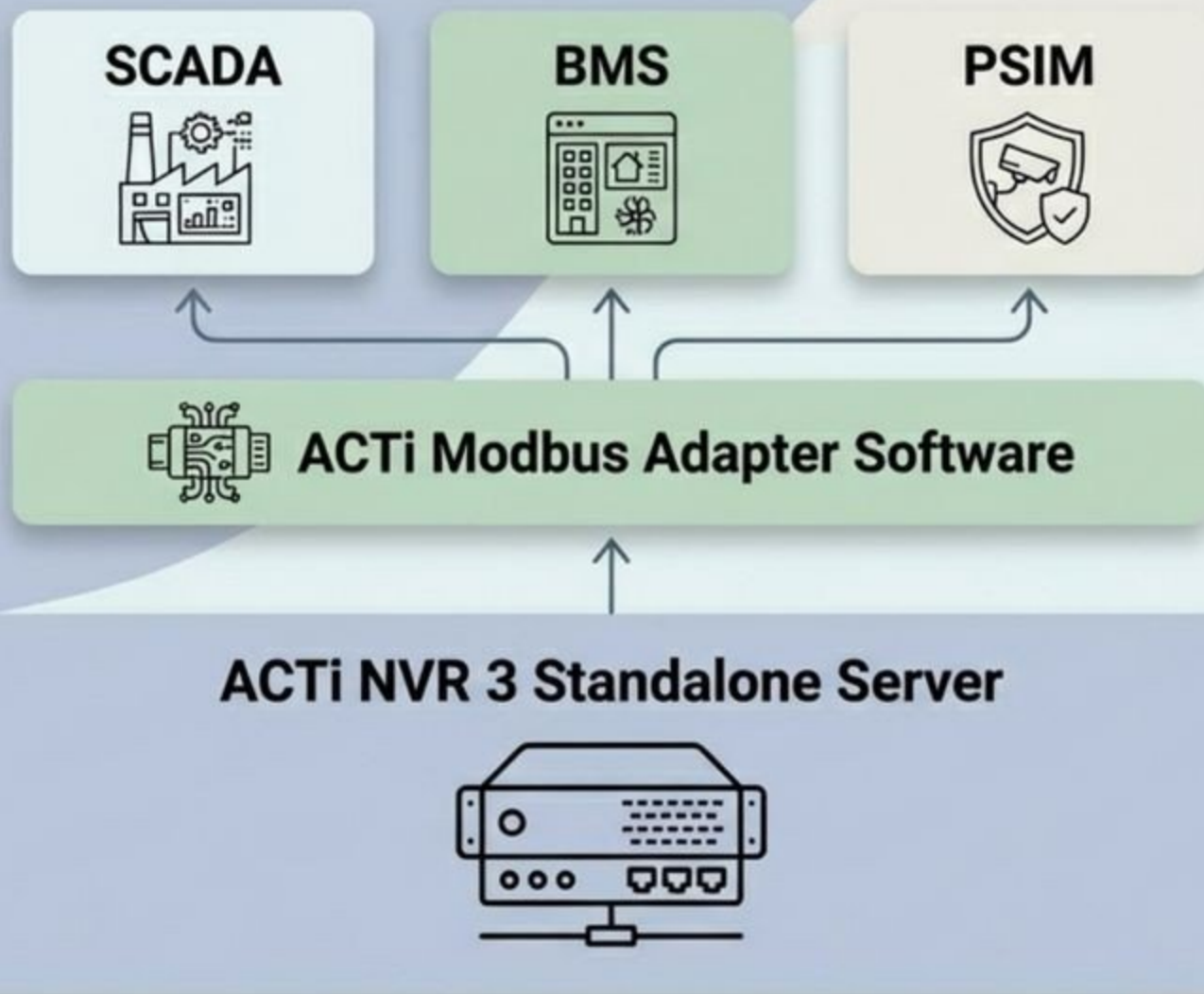


Critical-Infrastructure

VMS functions as a real-time operational and safety sensor.

Solutions

Seamlessly Link Systems with NVR 3



NVR 3 operates as the standalone server, seamlessly managing video feeds while the Modbus Adapter simultaneously passes vital status flags to third-party parent systems, ensuring enterprise-grade capacity and system redundancy.

Product Introduction

Product Matrix: NVR / Server Lineup



Product Type: NVR / Server

Model: NVR 3 Corporate

Key Differentiator / Role: Enterprise VMS Platform with Native Modbus Adapter Compatibility

Capacity: Full standalone server capabilities integrating directly with SCADA/BMS/PSIM parent systems without complex API development.

Product Introduction

System Integration Comparison

Traditional Integration

- Requires proprietary middleware
- Relies on complex API development
- Requires modifications to the core VMS system

ACTi Modbus Adapter Solution

- Utilizes widely deployed Modbus TCP protocol
- No complex API coding required
- Bridge utility requires absolutely zero modifications to the existing VMS

Summary

The ACTi Integration Advantage

1



Universal Communication: Leverage Modbus TCP to seamlessly connect video networks with SCADA, BMS, EMS, and PSIM parent systems.

2



Real-Time Intelligence: Instantly synchronize critical alarms (network loss, disk failures, panic alarms) to transform cameras into active safety sensors.

3



Frictionless Deployment: Implement fully automated operational signaling with zero proprietary middleware and no modifications to the NVR 3 system.

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