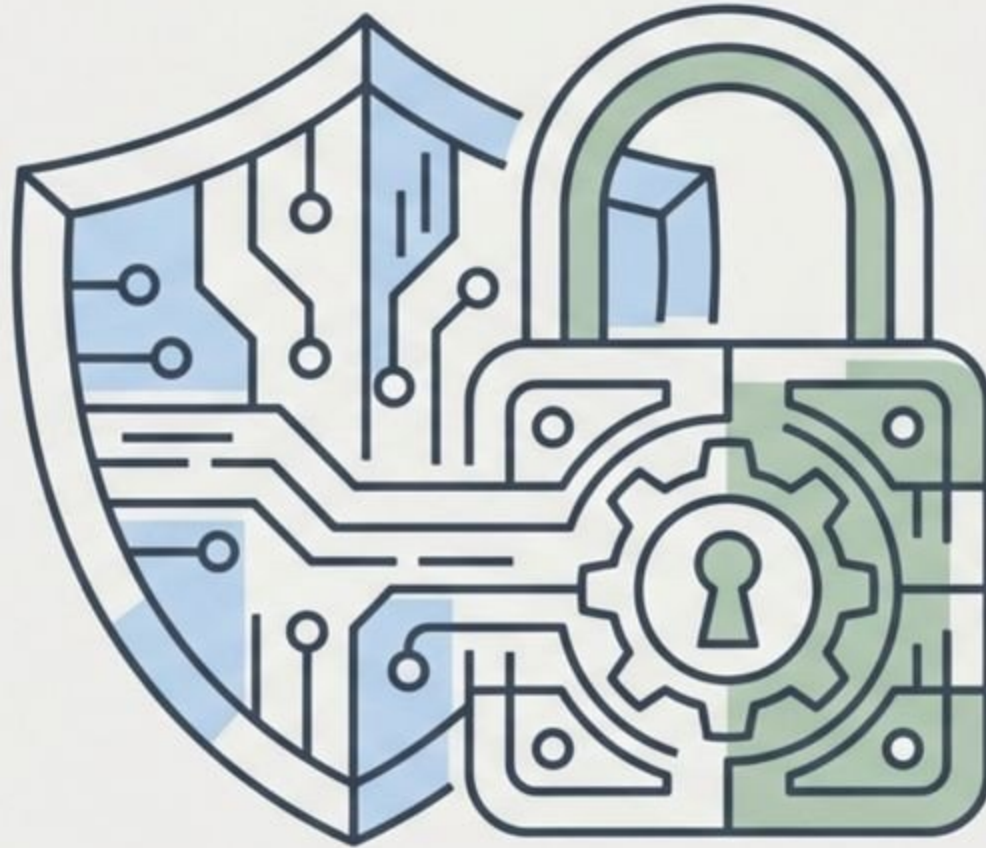


Cyber Security





Overview

Threat Surfaces

- Default/weak credentials
- Outdated firmware
- Insecure services (Telnet/RTSP)
- Command injection
- Supply-chain vulnerabilities

Operational Risks

- Privacy breaches
- Recording sabotage
- Botnet enrollment
- Lateral IT/OT movement

Threat Landscape & Global Standards

ETSI EN 303 645

Consumer IoT baseline
(Secure updates, TLS, no
default passwords)

NISTIR 8259A

IoT device capability core
(Identity, secure storage,
logging)

IEC 62443

IACS security (Defense in
depth, SL1-SL4)

FIPS (140-2, 199, 200)

US Federal cryptographic &
categorization baselines

ONVIF & UL 2900-2-3

Software safety &
certificate lifecycle

Taiwan Standards

Taiwan IoT Cybersecurity
Certification (CNS-16120 &
TAICS TS-0014)

Features

Comprehensive Hardening Across the Ecosystem



Device Hardening

- **Crypto:** TLS 1.2/1.3, strong ciphers, signed firmware, secure key store (TPM/TEE)
- **Access:** Enforced first-boot credential changes, unique secrets, RBAC, 2FA
- **Update:** Authenticated updates with rollback protection



Network Controls

- **Zero Trust Gateway:** Mutual TLS to VMS, strict firewall ACLs (deny-by-default)
- **Segmentation:** Isolated VLANs, blocked east-west traffic
- **Management Plane:** Out-of-band admin network with MFA jump-hosts

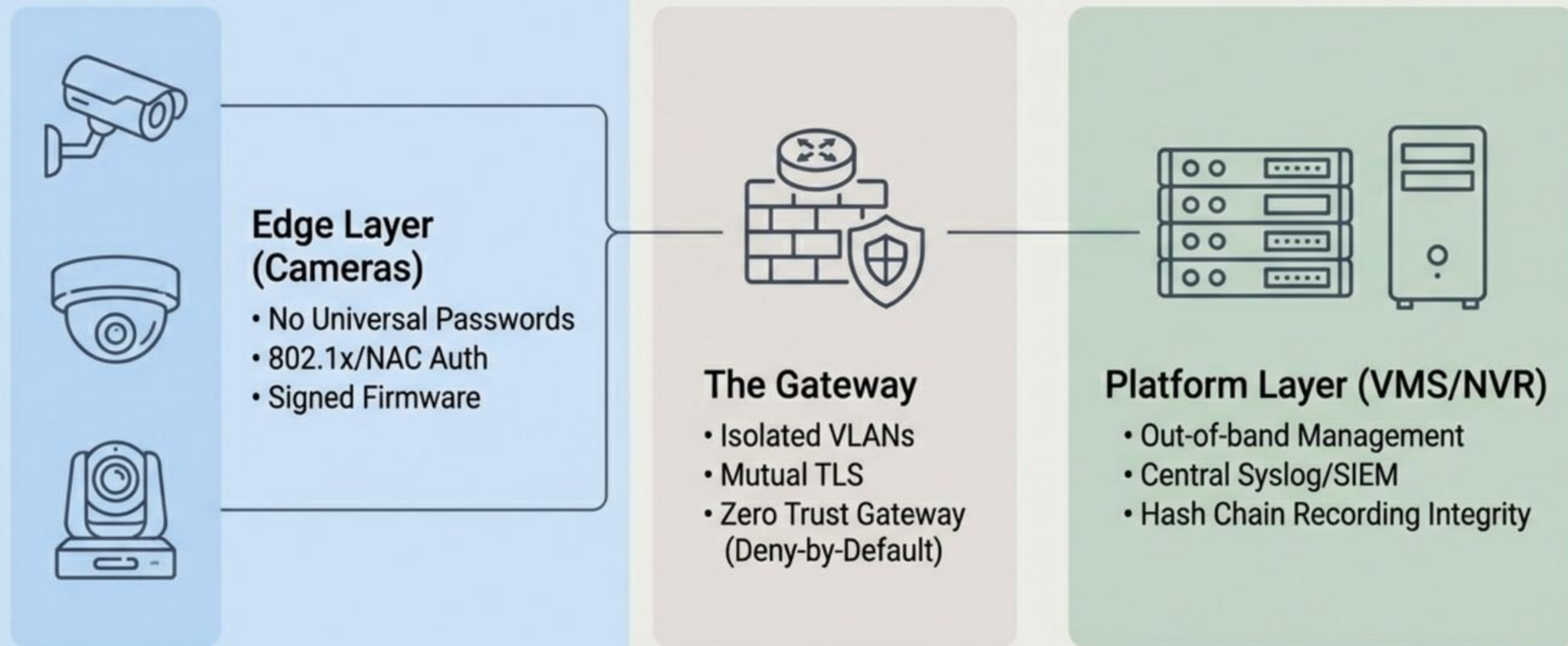


VMS / NVR Layer

- **Identity Federation:** Enforce SSO/MFA for operators
- **Recording Integrity:** Hash chains and watermarking for evidentiary footage
- **Update Orchestration:** Staged camera firmware updates, automatic rollback

Architectures

The Device-Network-Platform Stack



Applications

Mission-Critical Deployments in High-Value Markets

Regardless of industry, secure surveillance is mandatory. In high-value sectors, these cybersecurity features are critical to prevent hacking, tampering, and abuse.



Government

Requires FIPS and NIST compliance to secure federal facilities and public spaces against state-sponsored or advanced threats.



Finance

Requires strict RBAC, 2FA, and encrypted video feeds to protect banking operations and customer privacy.



Critical Infrastructure

Requires IEC 62443 defense-in-depth and OT/IT segmentation to prevent lateral network movement and physical sabotage.

Solutions

ACTi Secure End-to-End Ecosystem

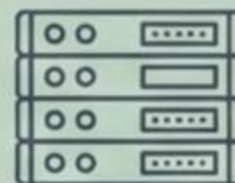
ACTi provides a secure end-to-end solution combining IP cameras, video management systems, and access control. Cybersecurity is the top priority for development.



CMS-201

Central Management Server

Enterprise-scale identity federation, secure centralized logging, and SSO integration.



INR-407

Standalone Secure NVR

Built for recording integrity, isolated network management, and high-capacity secure local storage.

Product Matrix

Fixed & Zoom Network Cameras

Baseline: Extreme WDR &
Extreme/Superior Low Light Sensitivity



Bullets

A-Series:

- A313: 4MP, Fixed, Analytics
- A314: 6MP, Fixed, Analytics
- A422: 4MP, 5x Zoom, Analytics
- A423: 6MP, 5x Zoom, Analytics

B-Series:

- B412: 3MP, 10x Zoom

L-Series:

- L31 / L31-P1: 2MP, Fixed
- L33 / L33-P1: 6MP, Fixed
- L41: 2MP, 4.3x Zoom
- L43: 6MP, 4.3x Zoom



Domes

A-Series:

- A76: 4MP, Fixed, Analytics
- A77: 6MP, Fixed, Analytics
- A811: 4MP, 5x Zoom, Analytics
- A820: 4MP, 5x Zoom, Analytics
- A821: 6MP, 5x Zoom, Analytics

L-Series:

- L71: 2MP, Fixed
- L73 / L73-P1: 6MP, Fixed
- L81: 2MP, 4.3x Zoom
- L83: 6MP, 4.3x Zoom

Product Matrix

Advanced PTZ, Hemispheric, Box & Management Servers

Baseline Feature: Extreme WDR



PTZ / Speed Dome

A-Series:

- A955: 5MP, Adaptive IR, 40x Zoom, Analytics
- A966: 2MP, Adaptive IR, 33x Zoom, Analytics
- A967: 5MP, Adaptive IR, 33x Zoom, Analytics

B-Series & I-Series:

- B928: 5MP, 36x Zoom
- I98 / I98-K1: 2MP, 33x Zoom, Analytics



Box

- B26: 3MP, Zoom Box, 36x optical



Hemispheric

- A711: 12MP, Outdoor Hemispheric Dome, Adaptive IR, Built-in Analytics



Management Servers

- CMS-201: Central Management Server
- INR-407: Standalone Secure NVR

Comparison

Selecting the Right Hardware Tier

Baseline Features Across All Series: Extreme WDR, Day/Night capabilities, Extreme/Superior Low Light Sensitivity

A-Series Premium Tier

-  • High resolutions (4MP to 12MP)
-  • Built-in advanced analytics
-  • Adaptive IR technology
-  • High zoom capabilities (up to 40x on PTZ)

L-Series Core Tier

-  • Essential resolutions (2MP to 6MP)
-  • Fixed and moderate zoom options (up to 4.3x)
-  • Streamlined for standard secure deployments

B-Series & I-Series Specialty Tier

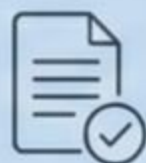
-  • Extreme optical zoom ranges (up to 36x)
-  • Specialized for long-range Box and PTZ deployments

Summary

Proven Compliance and Risk Reduction



Baseline Alignment



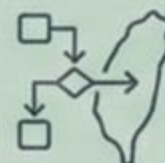
Design and operations strictly aligned to ETSI EN 303 645 and NISTIR 8259A.

Industrial Elevation



Device and system security mapped to IEC 62443 expectations and ONVIF Security Services for lifecycle management.

Taiwan Pathway



Gap assessment, artifact collection (SBOM, threat models), pre-audit testing, and achieving Taiwan IoT Cybersecurity Certification (CNS-16120 & TAICS TS-0014).

Result

Vendors and integrators measurably reduce operational risk and demonstrate uncompromising compliance in both global and Taiwanese markets.

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