

IEC 62443 Industrial Cybersecurity

by [Nick Clark](#) | Published April 25, 2026

IEC 62443 Frame

IEC 62443 establishes the international cybersecurity standard for Industrial Automation and Control Systems (IACS) with Security Levels (SL 1-4) and structural requirements across asset owners, system integrators, and product suppliers.

Architecture Implications

IEC 62443 implementation requires structurally-supported asset management, vulnerability tracking, and emerging incident response across industrial customers.

Architectural Mapping

Health-monitoring fleet substrate provides continuous IACS monitoring. Governance-chain integrity supports vulnerability management. Cross-vendor federation supports multi-vendor industrial operations.

Standard Evolution

IEC 62443 enforcement maturation, emerging integration with emerging EU NIS2 Directive, and emerging CISA ICS cybersecurity guidance push toward structurally-supported architecture.