framatome

TAG4TRUST Seal System

Unique physical intrusion detection system for critical industries

Challenge

Reliable long-term support of instrumentation and control (I&C) systems is essential for the safe and economic operation of nuclear power plants. Plant protection, control, supervision and monitoring rely on systems that must be completely resistant to tampering or other intrusions. Plant owners need a system that will ensure the integrity of the equipment received from outside suppliers.

Solution

In order to ensure that I&C systems are free from potential tampering when equipment is transferred from suppliers to the customer, Framatome developed the TAG4TRUST seal system. The TAG4TRUST seal system can detect any attempt at unauthorized access using controls to trace the tamper proof seals' integrity. The system provides reliable supply chain control. Since Framatome owns the coding and distribution of the TAG4TRUST seals, traceability is assured. Applications include:

- Cabinet doors
- Hardware components (CPU boards, memory boards, communication coupler, etc.)
- Unprotected communication ports (switches, CPU board communication ports, etc.)

Customer benefits

- Fast and obvious proof of tampering saves time, helps ensure supply chain control.
- Controlled, traceability of equipment received from outside suppliers improves customer confidence.
- Risk of undetected malevolent actions is decreased.
- Cost savings achieved through early detection of any intrusion that could result in a significant event if unidentified.
- Periodic control reports with cross checks by Framatome enhance security of systems prior to customer receipt.

framatome FRA - E0001009
Intact security seal

framatome FRA - E0001009
Broken security seal

Product information

- Each seal will have a unique ID number and associated QR code.
- Use the TAG4TRUST app to enroll, map the seals and track non-conformities throughout your extended systems.
- Holograms on each seal prevent the possibility of photocopying.
- The "OPENED" message becomes visible immediately upon removal of the seal.
- In case of a broken seal, Framatome can provide an intrusion management report with a simplified, detailed and chronological analysis of events, maintaining evidence of system integrity through hand-off to the customer.

Key figures

2,000 I&C professionals at **20** sites in **10** countries with more than **170** experts dedicated to cybersecurity solutions

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