

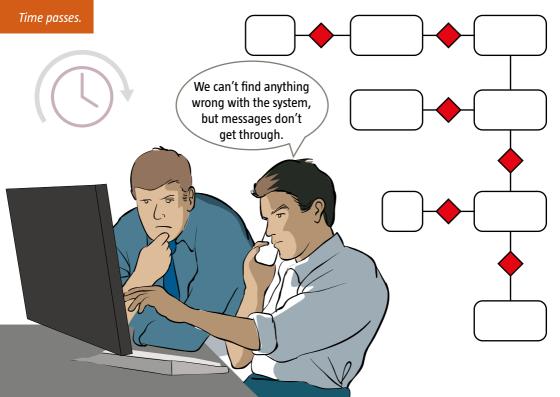
ICS Parables

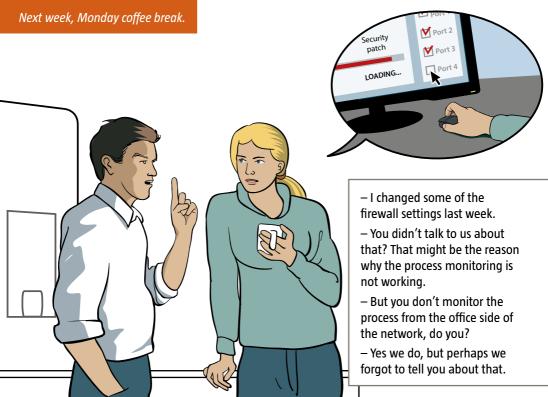
Part 2

Good intentions









Recommendations

- Ensure systematic change management in industrial information and control systems.
 - Before and after changes in the industrial information and control systems, ensure that affected parties are always informed of the change.
 - Changes (configurations, "patching", etc.) are always tested in a separate test environment before being installed in daily operation.
- Harden and upgrade industrial information and control systems in collaboration with system vendors.
 - Ensure that there is clear documentation on how and when system hardening is to be performed or has been performed.
 - Ensure that all upgrades, reconfigurations and "patches" are documented.

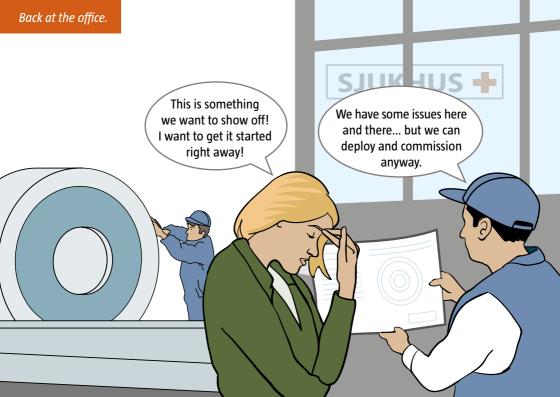
Protect vital societal functions.

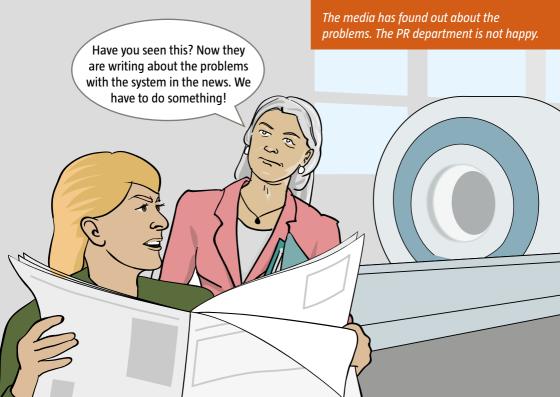
Protect your organisation.

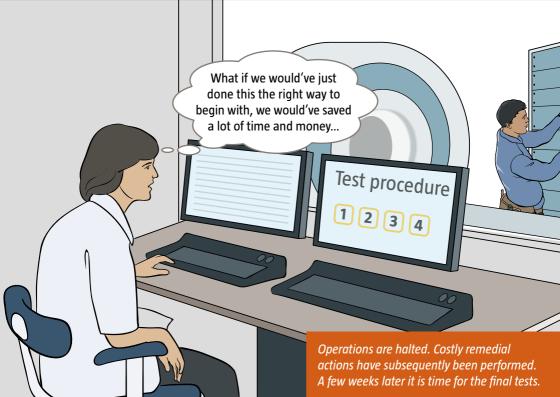
Protect your industrial control systems.











Recommendations

- Secure management's commitment and responsibility for security in industrial information and control systems.
 - Try to describe what different measures cost both in investment and in working hours. Relate the cost to the benefit that the measures yield for the business.
- Clarify roles and responsibilities for security in industrial information and control systems.
 - Ensure that there are documented requirements for a system owner, such as expertise, training, security classification, etc.

- Introduce security requirements in industrial information and control systems right from the start in all planning and procurement.
 - Ensure that there are documented procedures for how information security issues shall be handled during all procurement of goods and services.

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