

Protect computers, communications systems and networks from a cyber attack

Schneider Electric's cybersecurity compliant solution for the nuclear power industry

Solution at a glance

The overall protection and safety of the plant are primary objectives of every nuclear power facility. Key to meeting these objectives is the protection of critical infrastructure such as computers, communication systems and networks. A compromise of these assets from cyber attack will have a detrimental impact on plant safety and operations.

This methodology can be applied to any system, no matter what the existing lifecycle of the network. In addition, the Schneider Electric™ approach is completely network agnostic, working with any process safety control system in the field.

Overview

The overall protection and safety of the plant are primary objectives of every nuclear power facility. Key to meeting these objectives is the protection of critical infrastructure such as computers, communication systems and networks. A compromise of these assets from cyber attack will have a detrimental impact on plant safety and operations.

Comprehensive cybersecurity

The Schneider Electric cybersecurity practice organization has developed a comprehensive cybersecurity compliant solution portfolio which takes a holistic approach based on a lifecycle management methodology. This methodology can be applied to any system, no matter what the existing lifecycle of the network. In addition, our approach is

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completely network agnostic, working with any process safety control system in the field. The Schneider Electric cybersecurity solution portfolio delivers regulatory compliance as defined by the Nuclear Regulatory Commission (NRC):

- Meets the requirements and guidance from 10 CFR 73.54
- Compliant in accordance with NEI 08-09 and Regulatory Guide 5.71
- Integrates to include structures, systems, and components (SSC)
- Encompasses the SSC in the balance of the plant (BOP)

Lifecycle management methodology —

Lifecycle management methodology is based on four independent service elements. Each of these four elements complements the other.



Schneider Electric has a separate solution for each of the four elements:

- **Security Assessment:** We assess your current network, identify issues, and suggest improvements.
- **Security Architecture and Policy Development:** Utilizing the security assessment as guidance, we identify which elements need to be implemented and develop a detailed design.
- **Security Modernization and Implementation:** We turn the network design into reality, from procurement to staging and commissioning.
- **Security Management and Optimization:** We involve ourselves in management of the network and provide a mechanism to optimize it as it changes and evolves with usage.



Security assessment	Security architecture & policy development	Security modernization & implementation	Security management & optimization
<ul style="list-style-type: none"> • Site assessment • System assessment • Policy assessment • Procedure assessment • Compliance assessment • Security baseline testing • Vulnerability assessment • Risk assessment <p>Assessment of: Policy creation, firewalls, intrusion prevention, biometrics, anti-virus</p>	<ul style="list-style-type: none"> • Site security design • System security design • Secure policy creation • Procedure creation • Compliance evaluation • Planning workshop <p>Design of: Policy creation, firewalls, intrusion prevention, biometrics, anti-virus</p>	<ul style="list-style-type: none"> • System hardening • System installation • System configuration • Design implementation • Penetration testing • Vulnerability scanning <p>Implementation of: Policy creation, firewalls, intrusion prevention, biometrics, anti-virus</p>	<ul style="list-style-type: none"> • Managed security services (24/7) • Managed node security • Incident response • Penetration testing • Managed site security <p>Management of: Policy creation, firewalls, intrusion prevention, biometrics, anti-virus</p>

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