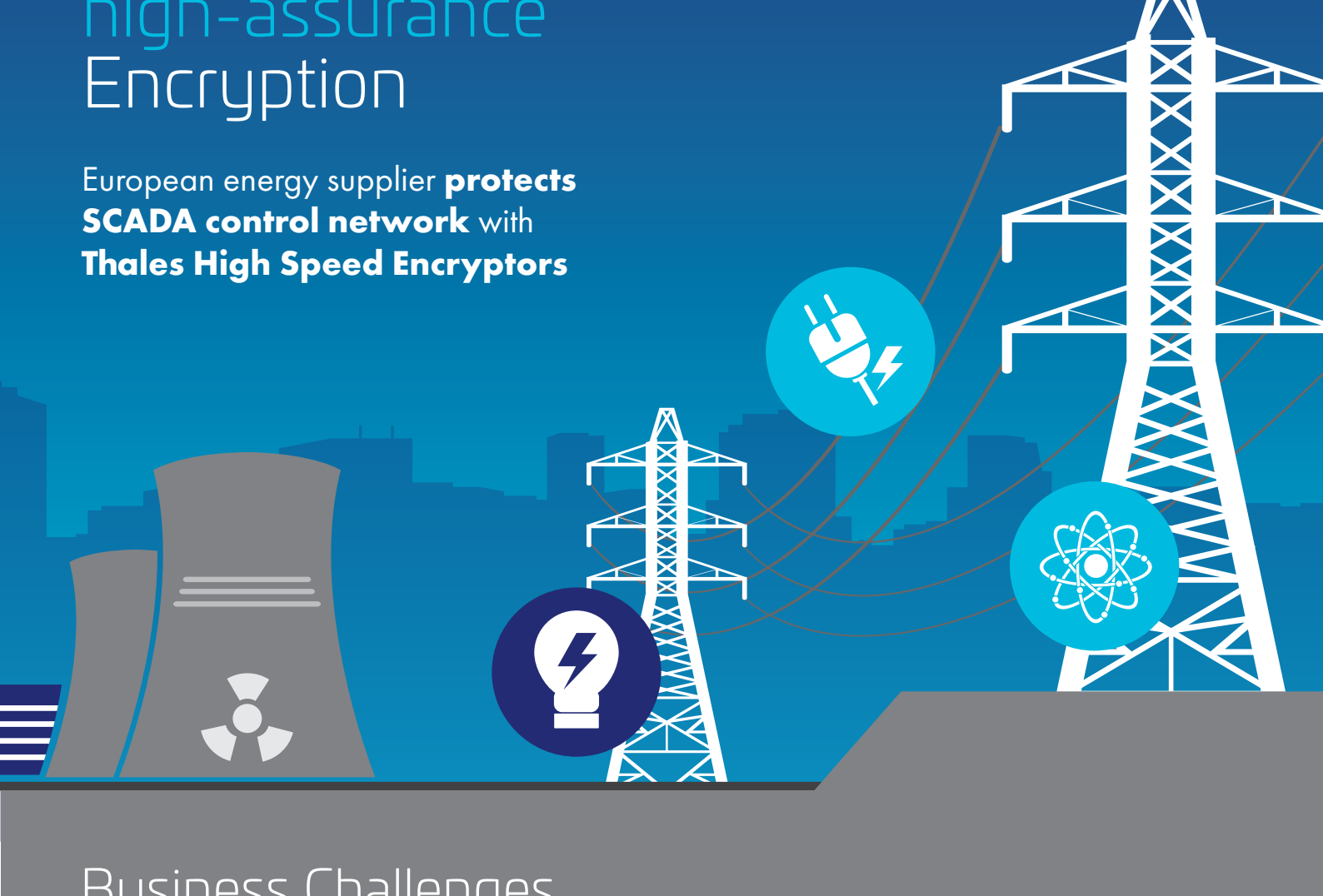


SCADA industrial control networks' high-assurance Encryption

European energy supplier **protects SCADA control network** with **Thales High Speed Encryptors**



Business Challenges

As a provider of critical infrastructure, **safety, traceability,** and **transparency** of operations are essential.



Large volumes of sensitive data



Dedicated Layer 2 network infrastructure



Multi-site, hub and spoke topology



Physical intrusion safeguards - tamper resistant hardware design



Prevent data corruption or injection



Stringent compliance obligations

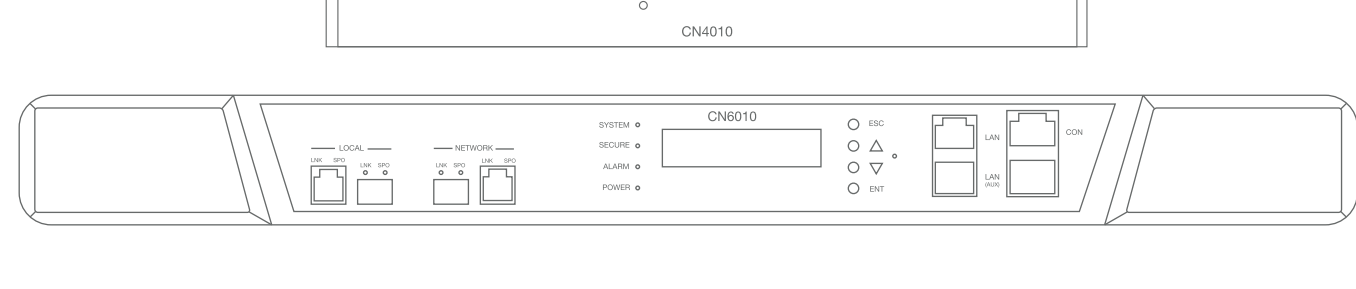
Recent attacks on critical infrastructure installations have shown how easily malicious software can be introduced to control systems.

The industrial IT world needs to rethink security and look beyond high fences and locked gates.

SANS Institute

Encryption Solution

Two types of Network Encryptors from the Thales High Speed Encryptor family were chosen - a network encryptor suitable for larger installations, and a different encryptor for smaller branches of the network.



"With the help of Thales High Speed Encryptors, we can ensure our SCADA network has premium protection against data tampering. The solution is reliable and was easy to implement with little effort. The Thales team gave us the best possible assistance during the pilot phase. Their flexible licensing model means that we are optimally prepared for future licensing extensions when needed."

Head of Systems Support

Key Benefits



Maximum network data security



Zero impact on network performance



Renders data useless to unauthorized users



Prevents injection of rogue data



Physical intrusion safeguards - tamper resistant hardware design



Systems failover for resilience



Flexible licensing model



Scalable and interoperable



Low total cost of ownership



Ease of deployment and management



Versatile, in-field encryption



Tailored to SCADA network

What Is High-Assurance?

Thales high-assurance Network Encryptors include the added assurance of certification by leading independent testing authorities such as NIST, and the following essential features:

- Secure, tamper-proof, dedicated hardware
- Standard-based algorithms and support for custom curve and entropy
- End-to-end, authenticated network encryption
- Automatic zero-touch encryption key management and metadata protection - encryption keys are generated and stored securely within the tamper-resistant hardware enclosure

Discover more about Thales High Speed Encryptors



DISCOVER MORE ABOUT THALES HIGH SPEED ENCRYPTORS



READ MORE ABOUT HIGH-ASSURANCE DATA-IN-MOTION ENCRYPTION