Managed Security Services for Energy

Enabling the benefits of convergence while preventing threats

Benefits of convergence for energy



Improved Flexibility Organizations react more quickly to market changes. They can change production

timelines based on outside factors efficiently while still meeting business objectives.

Enable Best Practices



Organizations use IT/OT convergence projects to bring longstanding IT best practices to their operational systems.

Lower Operating Costs Convergence drives lower costs by optimizing resource utilization.

Better Performance Combining IT and OT data means organizations can generate more accurate and



meaningful KPIs.

Insufficient funds, legacy equipment issues, and lack of expertise

Challenges of convergence for energy

make it difficult for energy firms to justify investment. Top three digital program challenges

"What are the top-three challenges holding back your organization from

undertaking digital programs that support the transformation of services?" Showing the top five answers ranked based on top, second, and third priority combined

#1 = Insufficient funding (38%)

2 = Security concerns (34%)

#3 = Rate case or investment approval (33%) 44 = Retain or integrate legacy equipment (31%)

#5 = Lack of project management skills (29%)

The security team has lots of issues corresponding to rapidly

Source: Omdia

50%

47%

47%

Note: n=601

Source: Omdia

45%

39%

37%

35%

changing sophisticated attacks like ransomware, while also supporting execution of business strategy. "What are the issues that most affect security organizations?" Supporting digital/cloud transformation projects

Ransomware attacks Staffing/skills shortage Budget

This is paired with cybersecurity concerns around

How confident are you about your organization's resilience?

DDoS attacks Addressing geopolitical

Insider threats/employee

impact to the organization

digital transformation.

security training

Most organizations describe their security visibility as "good,"

but the aim should be "excellent." Which best describes your organization's security visibility across on-premises, branch, cloud, and

Very poor

1%

remote/home environments?

Average

10%



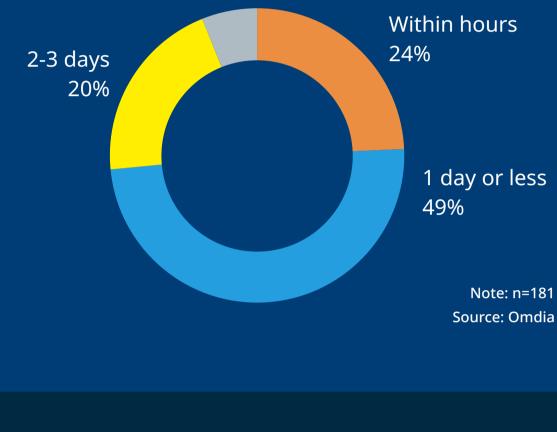
How quickly can your organization respond to, and successfully resolve 'high' priority security events?

Responding quickly to high-priority security

events is a must for businesses,

yet only 1 in 4 can respond within hours.

1 week 6%



mitigate risk. Ineffective cybersecurity management can leave gaps that could potentially lead to shutting down operations as a precautionary measure – even if intrusion begins on the IT side of the business.

Security researchers have demonstrated lateral movement

as can happen in IT networks.



enhance safety & control

An effective cybersecurity program includes:

Recent major breaches, such as May 2021 Colonial Pipeline ransomware attack, showcase how an IT breach can impact OT. The attack began on the IT side, with breached credentials, but operations were shut down for six days as a precautionary

across levels of the Purdue model, through the OT network,

An effective cybersecurity program builds systems to

measure.



Visibility and monitoring of effective cybersecurity controls will allow organizations to gain a

as continuous monitoring.

compliance, needs expertise.

clear, accurate picture of their networks, as well

manner.

Continuous improvement: Organizations must provide for continuous improvement by verifying

and improving the efficiency of each activity.

knowledge sharing.

Regulatory compliance and standardization will help, but expert interpretation and support is necessary.

Critical industries, like energy, are heavily regulated, and increasingly cybersecurity requirements are

being developed by governments globally. These are helpful in developing an effective cybersecurity

program, but determining how to navigate and implement standardization, and meet regulatory

The NIS 2 Directive. Focus is on infosec policy, incident prevention, detection

and response, encryption, supply chain security, crisis management, and vulnerability disclosure - with a revamped approach to incident reporting. The North American Electric Reliability

Corporation.

IEC62443 - The ISA/IEC 62443 series of standards. These standards set best practices for security and provide a way to assess the level of security performance. Their approach to the cybersecurity challenge is a holistic one, bridging the gap between operations and information technology as well as between process, safety, and cybersecurity. **NIST Cybersecurity Framework (CSF).** The US NIST CSF specifies categories for firms to build a security posture, breaking threat protection into five categories: identify, protect, detect, respond, and recover.

Critical Infrastructure Protection (NERC CIP). Includes

Convergence issues Managed services help organizations justify the **Budget constraints** investment in by providing and implementing the right security controls that meet top requirements

Uncertainty about new IT/OT

Lack of visibility across field or plant

devices to determine vulnerabilities

By providing security service operations as well as consultative and technical expertise, managed services help to address the skill gaps

By providing reliable expertise, managed services

By providing carefully chosen cybersecurity tools,

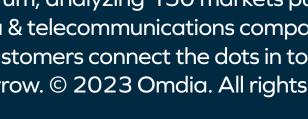
managed services help organizations gain more

visibility in their plant and implement security **Meeting executive management** and regulatory requirements measures for the security level for each plant

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