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Breaking Through MFA Barriers in Oil & Gas Air-Gapped Networks

Silverfort helps oil and gas organizations protect their identity attack surface by mitigating ransomware risk and extending MFA protection to all resources in their IT and OT environments.

Today's interconnected world has made the cybersecurity landscape increasingly complex, particularly for industries such as oil and gas. Ransomware attacks have increased in frequency in this sector, causing serious concerns about the security of their operational technology (OT) networks.

Traditionally considered safe because of their air-gapped nature, OT networks are no longer as isolated as they once were. Due to the ever-growing convergence between OT and IT, even air-gapped OT networks are at risk of malicious intrusion. The gradual transition from local logins to Active Directory Single Sign On (SSO) has increased adversaries' ability to follow up on such initial access with lateral movement.

What Makes Oil & Gas Companies a Key Target for Identity Threats

IT/OT Convergence	Air-Gapped Networks	Shifting to Active
and Third-Party Access	Exposed to Ransomware	Directory Single Sign-On
Since the convergence of IT and OT	Since air-gapped networks are	As OT networks have transitioned from
environments, OT networks need to	becoming more interconnected,	local authentication to Active Directory
be accessed regularly by third-party	attackers can exploit these gaps to	Single Sign-On (SSO), user access has
contractors and service providers for	infiltrate the OT network and plant	become more seamless. A significant
maintenance and support, creating a	ransomware payloads on critical assets	security flaw has also been exposed
link between air-gapped networks	like engineering workstations, HMIs,	as a result of this. Once an attacker
and external systems. File transfers	and databases. This ransomware	gains access to the network, centralized
between OT and IT networks further	propagation can lead to operational	credentials facilitate lateral movement,
erode the isolation between the	downtime, data loss, and significant	increasing the risk of a breach causing
two networks.	financial losses.	significant damage.
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How Silverfort Solves Oil & Gas Identity Security Challenges

Secure Third-Party Access

Silverfort does not require agents on the protected devices, meaning MFA can be enforced on all access attempts to any resource, including ones made by external vendors. This ensures that only authorized personnel can access the network and significantly reduces the attack surface.

FIDO2 Token Support Helps Prevent Lateral Movement Attacks

By supporting FIDO2 tokens, Silverfort adds an extra layer of protection to the OT network against lateral movement. By requiring strong authentication for every access attempt, even if an attacker gains initial access, their ability to move laterally and spread ransomware is severely limited.

Seamless AD Integration and SSO Capabilities

Silverfort's direct integration with Active Directory enables users to leverage the benefits of SSO access while maintaining full protection against identity threats. This approach simplifies the authentication process and enhances the overall security posture.

Learn more about how Silverfort helps Oil & Gas companies solve their key identity security challenges.

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