Cybersecurity

Cybersecurity Beyond Core Domains:
HMH's Cross-Industry OT Security Framework

Executive Summary

The digitalization of critical infrastructure and industrial operations brings unparalleled opportunities, and with them complex cybersecurity threats. HMH, drawing on decades of expertise and innovation within the energy sector, can now deliver robust, scalable cybersecurity solutions to all industries.

Our proven methodologies and adaptable technologies are reimagined beyond our traditional drilling automation focus, enabling organizations everywhere to drive operational resilience, protect assets, and sustain business continuity in an ever-evolving threat landscape. This white paper explores how HMH successfully transitioned from its core domain, drilling control systems, into securing critical infrastructure in new sectors.

Background

For several years, HMH has been at the forefront of upgrading complete drilling control systems worldwide. Our projects have involved comprehensive replacements and upgrades, from field I/O to advanced network layers, ensuring both technical modernization and cybersecurity preparedness.

Through these engagements, HMH identified the opportunity to extend our unique expertise and product suite beyond our traditional markets, offering holistic, industry-agnostic cybersecurity solutions suitable for diverse operational environments.

Overview

At a Glance

A concise overview of how HMH strengthens cybersecurity across industrial sectors by modernizing operational technology environments and protecting critical infrastructure.

Risks

Legacy systems, obsolete hardware, and evolving cyber threats, uptime, and compliance.

Why HMH?

Proven cross-industry delivery supported by virtualized server environments, layered firewalls, intrusion prevention systems, secure remote access, and hardened third-party integrations, all delivered through a robust end-to-end cybersecurity approach.

HMH Portfolio

HMH delivery portfolio traditionally includes:

- Replacement of every component inside the OT system
- Network infrastructure modernization
- Deployment of fully virtualized server clusters
- Design and deployment of multi-tiered firewalls
- Secure remote connectivity
- Third-party integration hardening

These solutions, while initially tailored for drilling operations, are inherently generic and scalable, making them applicable to a wide range of industrial environments.

Why Cybersecurity Upgrades Are Critical

Two primary drivers necessitate modernization:

Obsolescence

Aging systems lack vendor support and security patches.

Cybersecurity

Threats are increasingly active, evolving in both frequency and sophistication, demanding proactive measures to safeguard operational integrity.

HMH's solutions address both, ensuring that your assets are not only up-to-date, but protected by state-of-the-art defense technologies.

Why HMH?

Proven Cross-Industry Capability
Solutions designed by experienced engineers for modular adaptation, providing robust protection for any operational environment.

Rapid, Reliable Deployment
Fast-track delivery, minimizing downtime, and maximizing return on cybersecurity investments.

Global Footprint
HMH operates with a global presence, delivering innovative solutions to customers worldwide.

End-to-End Support
From design to documentation, installation to ongoing updates, HMH stands with you at every stage.

Partner with HMH to future-proof your operations against evolving cyber threats. Contact us to learn how our solutions can secure your systems, regardless of industry or complexity.

Conclusion

HMH's proven ability to deliver complex cybersecurity upgrades demonstrates its readiness to support organizations across a wide range of industries.
As digital threats continue to escalate, HMH stands prepared to safeguard critical infrastructure, whether in oil & gas, subsea, or any other industrial environment, through reliable, comprehensive cybersecurity solutions.