



Transforming cybersecurity with a next-generation Vulnerability Management program

Operate | ER&I

The challenge

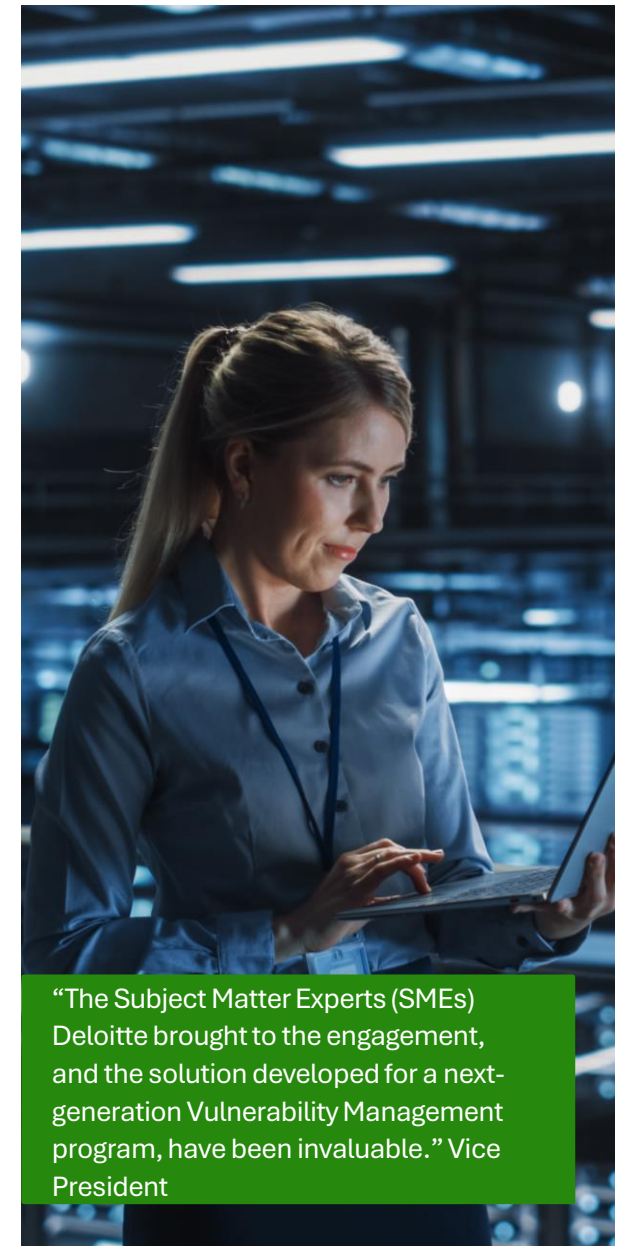
A major energy company within the Middle East, with a complex IT and OT infrastructure spanning multiple subsidiaries, faced the challenge of managing security vulnerabilities effectively. Existing manual processes were inefficient, hindering scalability and creating significant security risks. The company required a robust, automated solution to address the evolving threat landscape and establish a proactive, threat-based vulnerability management program. This included a need to address vulnerabilities based on business risks.

Deloitte's solution

Deloitte designed and implemented a tailored **Vulnerability Management program**, operationalizing a custom threat model reflecting the client's unique operational context and industry-specific risks. Leveraging cutting-edge technology, we built an integrated and automated vulnerability management program. This platform enables a threat and risk-based vulnerability assessment and remediation program in an automated fashion. The solution includes a **comprehensive Target Operating Model (TOM)** and associated operating processes and procedures, ensuring seamless integration into the client's existing infrastructure. The project involved a multi-year transformation, including ongoing managed services. This solution represents a first-of-its-kind implementation of both an IT and OT Vulnerability Management Services in the region using leading edge technology and integrated processes and procedures.

The outcomes

- ✔ The implemented solution delivered significant improvements in efficiency, achieving **over 30% process efficiency gains** in vulnerability identification within the first release alone.
- ✔ The project established a **next-generation Vulnerability Management program**, incorporating automated threat-based vulnerability management and IT and OT vulnerability management services.
- ✔ Advanced analytics and machine learning, **providing real-time insights** and supporting **proactive risk mitigation**.
- ✔ The collaboration involved cross-border and multi-disciplinary teams, showcasing Deloitte's ability to deliver complex, integrated solutions across diverse geographical locations and service lines.
- ✔ Enhanced business accountability for vulnerability risk.



“The Subject Matter Experts (SMEs) Deloitte brought to the engagement, and the solution developed for a next-generation Vulnerability Management program, have been invaluable.” Vice President

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