

Major American Oil and Gas Enterprise Uses SD Elements to Establish Threat Modeling Framework

Prioritizing security best practices for secure development and cost reduction.

INDUSTRY

Oil and Gas

LOCATION

U.S.

ROLE

Senior Application Security Manager

SD ELEMENTS

Our client is a multinational oil and gas corporation headquartered in the U.S. With over 70,000 employees and 10+ subsidiaries, this organization is recognized as one of the world's largest companies by revenue.

Challenge

Faced with the challenge of unorganized manual tasks and limited exposure to software security among developers, our client struggled to address security flaws highlighted late in the application development process. Because tasks were generated manually, security risks were inefficiently communicated to the development team. Although threats were identified throughout development, they were only addressed at the remediation phase, exposing the organization to vulnerabilities and high patchwork cost.

Our client recognized that to ensure security by design, they needed a scalable threat modeling approach to clearly and consistently communicate tasks to their development teams. They needed a tool that would allow them to shift left for security, reduce risks and reactive costs for risk management.

To help developers address security threats early-on, our client also wanted seamless integration with their issue trackers such as Microsoft Team Foundation Server and Azure DevOps.

Solution

Our client incorporated a proactive approach to secure coding by including threat modeling as an activity for each project in their risk management plan. This approach helped identify issues that weren't flagged by automated testing scanners and effectively reduced associated remediation costs.

"SD Elements is a unique product in the market. The maturity of SD Elements, when compared to other competitors, is in another league."

— Security Advisory Consultant

Using SD Elements, 30 pre-identified requirements were customized into risk policy tasks that were ranked according to their priorities and could be immediately executed by developers. The seamless integration of SD Elements with their issue tracking system made the solution a default in their task management process.

Our solution delivered several benefits to help the customer overcome their initial challenges including:



Strong security posture: With SD Elements, tasks were bundled into a customizable program that allowed higher priority tasks and critical risk items to be displayed first. This helped our client manage security better.



Security measures optimization: Because SD Elements integrated with our client's issue tracking system, they were able to seamlessly connect security tasks to developers, avoid potential bottlenecks, and conduct vulnerability assessments.



Better utilization of security experts: With SD Elements, our client scaled their existing threat modeling approach without hiring additional software security experts.



Regular updates for compliance: Relevant and up-to-date content was presented to developers in a manner that reflected the organization's policies, standards and methodologies.



Enhanced revenues: By using SD Elements, our client is estimating year-over-year ROI on associated remediation, auditing and human resource costs.

HIGHLIGHTS

- ▶ Estimated ROI in 3 years: 654%
- ▶ Reduction in Remediation Costs
- ▶ Managed Skills Shortage
- ▶ Injected Security into Development
- ▶ Strong Security Posture

SDE vs Manual Approach	Savings	ROI
6 Months - 200 applications	\$6,106,925	559%
Year 2 - 300 applications	\$9,096,451	652%
Year 3 - 500 applications	\$12,085,976	664%

SD Elements provided our client with the customization they needed to develop a scalable task management framework. Our solution allowed them to overcome cost, time and human resource restrictions while providing up-to-date compliance content for secure coding. With an anticipated 654 percent ROI in three years, SD Elements continues to significantly impact this organization's associated remediation and audit management costs.

For more information on SD Elements, visit us at <https://www.securitycompass.com/sdelements>

Security Compass enables organizations to proactively manage cybersecurity risk without slowing down their business through balanced development automation.

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