

Securing High-Velocity Data Integration Workflows

CASE STUDY

Company Profile



Industry

Enterprise Data Integration and Streaming



Company Size

Mid-market
(500-1000 employees)



Product focus

Real-time, continuous data integration, and streaming analytics platform.

The Challenge: Security Bottlenecks in High-Velocity Delivery

The company, a leading provider of real-time data integration solutions, operates in an environment where continuous delivery and rapid feature deployment are critical to maintaining a competitive edge. Their platform handles massive volumes of sensitive, in-flight data for enterprise clients, making robust security non-negotiable.

Initially, the company utilized Mend.io (formerly WhiteSource) for Software Composition Analysis (SCA) and open-source security management. However, as their CI/CD pipelines scaled in complexity and velocity, significant challenges emerged with Mend.io:



Integration Friction: Mend.io required complex, often brittle integrations with their existing CI/CD orchestration tools. This led to frequent pipeline failures related to the security scanning step rather than the code itself.



Performance Overheads: The scanning process significantly slowed down build times, creating unacceptable bottlenecks for engineering teams striving for rapid iteration.



Alert Fatigue and False Positives: Developers were overwhelmed by a high volume of alerts from Mend.io, many of which lacked actionable context or were irrelevant to their specific deployment environment. This eroded trust in the security tooling and slowed remediation efforts.



Limited Scope and Manual Fixes: Mend.io focused primarily on identifying vulnerabilities, leaving developers with the manual, time-consuming burden of researching and applying patches to the code.

The company needed a solution that provided robust security without sacrificing speed or developer productivity.

The Solution: Transitioning from Mend.io to OpsMx Delivery Shield

Seeking a more streamlined and practical approach to software supply chain security, the company evaluated alternatives and ultimately decided to drop Mend.io in favor of **OpsMx Delivery Shield**.

The decision was driven by the need for a solution specifically designed to integrate seamlessly into modern, high-velocity CI/CD environments while actively assisting developers in the remediation process.

Why OpsMx Delivery Shield was the Practical Choice

Delivery Shield offered several key advantages that addressed the pain points they experienced with Mend.io directly:



Seamless CI/CD Integration and Orchestration

Unlike Mend.io, which required cumbersome custom integrations, OpsMx Delivery Shield is built to integrate natively with modern CI/CD tools (like Jenkins, Spinnaker, Argo, etc.). It acts as an intelligent orchestration layer for security, seamlessly embedding automated checks without disrupting existing workflows.



Automated Policy Enforcement

The company could define and enforce security and compliance policies automatically within the pipeline. Delivery Shield acts as an automated gatekeeper, preventing risky deployments from reaching production without requiring manual intervention, thus maintaining high delivery velocity safely.



AI-Based Security Remediation via OpsMx Code Agent

Where Mend.io primarily surfaced issues for developers to investigate manually, OpsMx introduced a proactive approach. Using the AI-powered OpsMx Code Agent, Delivery Shield automatically generates intelligent code fixes and pull requests for identified vulnerabilities. This AI-based remediation shifted security from a reporting exercise to an automated, developer-friendly workflow, drastically reducing the manual burden on the engineering team.



Context-Aware Risk Assessment

Delivery Shield goes beyond simple vulnerability scanning. It analyzes the context of the deployment—including the specific environment, the changes being made, and the historical performance of the application. This context-aware approach drastically reduces the false positives that plagued their Mend.io instance and prioritizes alerts based on actual risk, alleviating developer alert fatigue.



Comprehensive Supply Chain Visibility

Delivery Shield provides a unified view of the software delivery process, offering insights not just into code vulnerabilities, but also into the security posture of the pipeline itself. This end-to-end visibility was crucial for a company handling sensitive enterprise data, bridging the gap left by Mend.io's narrower scope.

The Results: Faster, Safer Deliveries

By replacing Mend.io with OpsMx Delivery Shield, the company achieved:



Dramatically Reduced MTTR

The AI-driven OpsMx Code Agent automated vulnerability patching, saving hundreds of developer hours previously spent manually researching and fixing security flaws.



Increased Deployment Velocity

Pipeline execution times improved significantly due to the streamlined integration and reduced scanning overheads.



Improved Developer Productivity

Context-rich, prioritized alerts combined with automated pull requests allowed developers to focus on building features rather than sifting through false positives and writing boiler-plate patches.



Enhanced Security Posture

Automated policy enforcement ensured that every deployment met rigorous security standards before reaching production.



Lower Total Cost of Ownership

The practical, integrated approach of Delivery Shield reduced the administrative burden and operational costs associated with managing complex security tooling.

Conclusion

For this data integration provider, the shift from Mend.io to the integrated, context-aware approach of OpsMx Delivery Shield proved highly practical. By leveraging features like the AI-powered OpsMx Code Agent, they resolved critical bottlenecks in their CI/CD pipelines. This enabled them to maintain the rapid delivery speeds required by their market while significantly enhancing the security and integrity of their enterprise platform.

ABOUT US

OpsMx secures and intelligently automates software delivery from developer to deployment, building on an Open Software Delivery architecture and AI/ML-powered DevSecOps. OpsMx products and services enable hundreds of thousands of developers at Google, Cisco, Western Union, and other leading global enterprises to ship better software faster.

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