

# The State of Software Supply Chain Security in 2025 Report by Xygeni

Discover key trends, evolving regulations, and cutting-edge solutions shaping software supply chain security in Xygeni's 2025 report.

SAN FRANCISCO, CA, UNITED STATES, January 14, 2025 /EINPresswire.com/ -- [Xygeni](#), a global leader in software security solutions, is proud to announce the publication of its latest report, "The State of Software Supply Chain Security in 2025: A 2025 Roadmap with Insights, Trends, and Strategies to Defend Against Evolving Cyber Threats."

Key Insights from the Report:

- **Rising Cyber Threats:** Supply chain attacks have surged by 36% year-over-year, with [open-source vulnerabilities](#) and CI/CD pipelines as primary targets.
- **Evolving Regulations:** Frameworks like DORA and NIS2 impose stricter cybersecurity standards, mandating enhanced compliance and risk management practices.
- **Game-Changing Solutions:** Advanced technologies such as Software Composition Analysis (SCA), Pipeline Composition Analysis (PCA), and AI-driven anomaly detection are reshaping supply chain security.
- **Strategic Shifts:** Trends like shift-left security, real-time monitoring, and context-aware prioritization are becoming essential survival strategies for enterprises.

A Call to Action for 2025



This report serves as a roadmap for CTOs, CISOs, and cybersecurity professionals looking to navigate the rapidly evolving landscape of software supply chain security. It underscores the urgent need for organizations to embrace proactive, end-to-end security measures to counteract escalating threats and achieve regulatory compliance. “2024 highlighted the vulnerabilities in our interconnected digital ecosystems,” said Jesús Cuadrado, CPO of Xygeni. “With this report, we aim to empower organizations with actionable insights and the tools needed to build a resilient, future-proof software supply chain.”

### Explore Xygeni’s Solutions

Xygeni’s platform integrates cutting-edge solutions such as real-time malware detection, automated vulnerability remediation, and robust compliance tools to protect every phase of the SDLC. By integrating visibility, prioritization, and remediation, Xygeni enables organizations to address today’s challenges and prepare for tomorrow’s threats.

### Access the Report



2024 revealed vulnerabilities in our digital ecosystems. This report empowers organizations with insights and tools to build a resilient, secure, and future-ready software supply chain.”  
*Jesús Cuadrado. Chief Product Officer of Xygeni*

Access the full report to explore actionable insights and strategies for securing your software supply chain in 2025. [Visit the official report page for more details.](#)

### About Xygeni Security:

Xygeni specializes in Application Security Posture Management (ASPM) and Software Supply Chain Security (SSCS). By unifying visibility, prioritization, and compliance, Xygeni empowers organizations with innovative tools to secure modern software ecosystems through its Secure

Application Development and Delivery platform.

Julia Lorenz  
 Xygeni Security  
 marketing@xygeni.io

## 4. Trends in SSCS: 2025 and Beyond

As the challenges of 2024 exposed vulnerabilities in software supply chains, 2025 presents a decisive opportunity for organizations to enhance security, resilience, and operational integrity. The escalating threats, sophisticated malware, and tightening regulations of the past year have underscored the need for proactive measures, end-to-end visibility, and smarter risk management. The following trends for 2025 reflect a shift toward integrated, adaptive, and context-aware strategies designed to protect modern software ecosystems and mitigate evolving

### 1. Proactive Open Source Security Measures

In 2025, securing open-source software (OSS) will be a top priority as attacks targeting OSS components continue to rise. The focus will shift to **real-time OSS scanning, malware detection in open-source libraries**, and proactive anomaly detection using advanced Software Composition Analysis (SCA) tools. These capabilities are essential for identifying and mitigating threats like trojanized updates, cryptopacking malware, and credential-stealing packages before they infiltrate production environments.

The integration of advanced tools that **incorporate exploitability scoring and reachability analysis** will help organizations prioritize vulnerabilities based on real-world risk, improving remediation efficiency. This approach ensures that resources are directed towards the most critical threats, reducing exposure to OSS-related attacks.

### 2. Adoption of Pipeline Composition Analysis (PCA)

Beyond traditional SCA, Pipeline Composition Analysis (PCA) will gain traction as a game-changing tool in 2025. PCA offers real-time visibility into how vulnerabilities propagate through CI/CD pipelines, enabling teams to address risks before deployment. By integrating deeply into development workflows, PCA provides actionable insights that empower organizations to mitigate threats at every stage of the development lifecycle.

This continuous monitoring helps detect insecure dependencies and malicious code early, reducing the risk of production-level compromises and setting a new standard for pipeline security.

#### Differences Between SCA vs PCA

Feature	Software Composition Analysis (SCA)	Pipeline Composition Analysis (PCA)
<b>Primary Focus</b>	Identifying vulnerabilities in open-source and third-party components	Monitoring how vulnerabilities propagate through pipelines
<b>Visibility Scope</b>	Dependency chains and software components	End-to-end visibility across the entire CI/CD pipeline
<b>Stage of Detection</b>	Pre-deployment and code analysis	Continuous, throughout the development and deployment stages
<b>Integration Depth</b>	Basic integration into CI/CD workflows	Deep integration into CI/CD workflows
<b>Risk Analysis</b>	Static risk analysis based on known vulnerabilities	Dynamic risk analysis with contextual awareness
<b>Real-Time Insights</b>	Limited real-time capabilities	Real-time monitoring and detection
<b>Actionable Insights</b>	Focuses on known vulnerabilities and outdated dependencies	Provides actionable insights for pipeline-level security issues
<b>Use Case</b>	Ensuring third-party and open-source component security	Securing build processes and preventing pipeline compromises

## Trends in SSCS 2025 and Beyond

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