



SECURING THE SUPPLY CHAIN: MITRE'S SOFTWARE ASSURANCE PLATFORM (SwAP)

Every day, organizations across the government use software to perform critical functions and provide citizen services. However, the security of this software is under constant threat from supply-chain attacks, which not only compromise these organizations but also jeopardize the integrity of the software products. Despite the high value placed on quality assurance, the government does not have a standard security and quality review for new or existing software.

MITRE is closing this gap with its Software Assurance Platform (SwAP), a scalable service that enables government organizations to validate that critical software meets security and quality standards before it is installed and throughout its use in an organization. As a robust and comprehensive risk management solution, SwAP gives government officials and technologists up-to-date and independent risk detection, insight into the integrity of code libraries used by a software vendor, and an enterprise view of software vulnerability risk.

Today's market solutions focus on either software quality or vendor risk, but both are crucial for government organizations to make informed decisions. SwAP addresses this by using a best-of-breed approach and the right tools to detect vulnerabilities and malware. Our flexible risk management platform allows us to quickly integrate new risk detection solutions including those that analyze software bills-of-materials (SBOMs) or those that generate SBOMs. SwAP also quickly assesses basic vendor risk factors. Thanks to a normalized interface, we can swiftly configure and scale the platform as software security testing needs and market capabilities evolve.

SWAP addresses cyber threats from several angles:

SOFTWARE ASSURANCE CLEARINGHOUSE

Rigorous testing for Common Vulnerabilities and Exposures (CVE®) and Common Weakness Enumeration (CWE™) and Viruses (AV) will speed deployment.

Agencies no longer have to manage cumbersome security scanning tools and technical evaluations that often don't scale.

MALWARE ANALYSIS

Detection of Early warning system for software vulnerabilities.

SOFTWARE BILL OF MATERIALS

Validated SBOM information, as defined in the National Telecommunications and Information Administration's minimal elements.

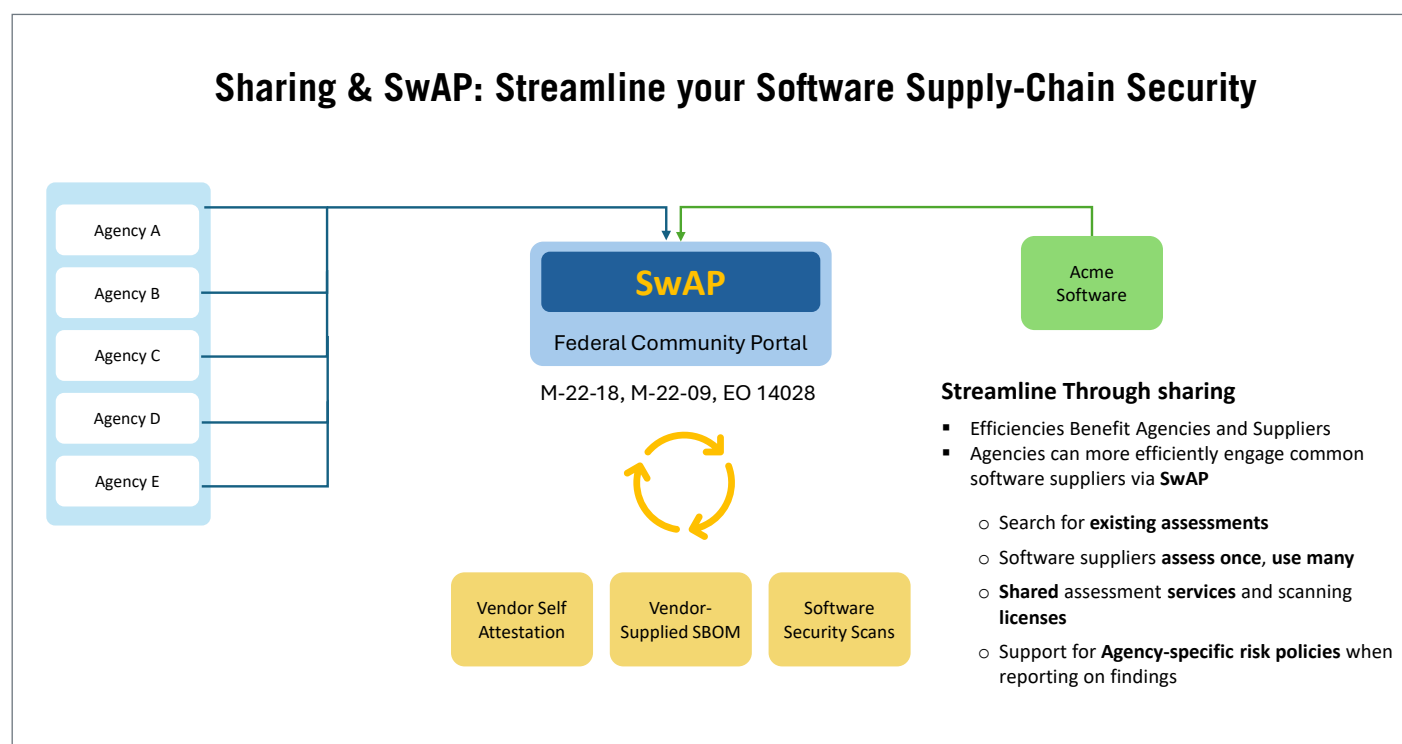
TRUSTED RESULTS

The government and its vendors must maintain greater visibility into software and make security data publicly available.

Securing the Supply Chain: MITRE's Software Assurance Platform (SwAP)

When combined with other threat information, such as data from cyber security operations centers (CSOCs), SwAP helps risk managers link potential breach data to particular open source and supplier code. As SwAP's database grows, so does the ability of agencies and departments across the government to detect—and manage—vulnerability risk across their enterprises.

SwAP ultimately raises the quality baseline for software, to the benefit of all government departments and agencies.



To learn more, contact us at SWAP@mitre.org.

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