

**Software Assurance:
Enabling Enterprise Resilience through Security Automation and Software Supply Chain Risk
Management**

Abstract:

The DHS Software Assurance (SwA) program works collaboratively with federal government and private sector partners to provide resources, tools and information to reduce the exploit potential of software. The SwA program sponsors security automation efforts that enable cost-effective, scalable processes and resources that advance the detection, prevention and mitigation of cyber threats at "machine speed." This better enables stakeholders to leverage information about exploitable weaknesses, vulnerabilities, malware and threat information to empower diverse types of organizations to easily influence corrective actions, and to choose what information share and which partners to share it with. The ultimate goal is to allow any organization's identification and analysis of suspicious code behavior and activity to inform preventive measures for the broader community as rapidly as possible. This presentation explores considerations for layered assurance in the context of resilience for enterprises through security automation and software supply chain risk management.

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Joe Jarzombek is the Director for Software Assurance within the Office of Cyber Security and Communications (CS&C) of the Department of Homeland Security. In this role he leads government interagency efforts with industry, academia, and standards organizations in addressing security needs in work force education and training, more comprehensive diagnostic capabilities, and security-enhanced development and acquisition practices. Joe served in the U.S. Air Force as a Lieutenant Colonel in program management. After retiring from the Air Force, he worked in the cyber security industry as vice president for product and process engineering. Joe also served in two software-related positions within the Office of the Secretary of Defense prior to accepting his current DHS position. He serves on several cyber security advisory groups. He is a Project Management Professional (PMP) and a Certified Secure Software Lifecycle Professional (CSSLP).