SEI Bulletin 40 years

SEI Launches Software Acquisition Go Bag

October 1, 2025 — The Software Acquisition Pathway was designed to help Department of Defense (DoD) programs follow efficient and effective practices to acquire, develop, integrate, and deliver secure software fast enough to meet the department's dynamic mission needs. The SEI recently launched its Software Acquisition Go Bag initiative to help programs adapt their acquisition practices to accelerate software delivery.

SEI acquisition experts are developing customizable collections of Tactical Guides, webcasts, templates, and other tools full of proven software acquisition strategies and tactics. The SEI will release new resources over time, based on user and community feedback.

"Our SEI team has helped hundreds of DoD programs deliver software-enabled capability through our unique integration of data-driven insights, software engineering research, and acquisition science," wrote the SEI's Eileen Wrubel, Rita Creel, and Brigid O'Hearn in a recent SEI Blog post. "We're packing that experience into the Go Bag so program teams can implement proven practices to drive successful outcomes."

Wrubel and O'Hearn will host a webcast October 22 to discuss the launch of the Software Acquisition Go Bag.

Learn more »

Read the blog post »

Register for the October 22 webcast »

SEI News

Cybersecurity Maturity Model Certification Rule Finalized for Defense Industrial Base
Beginning November 10, defense contracts may require assessments under the CMMC program, which the SEI co-created, but implementation will be phased.

Government, CMU, and SEI Leaders Celebrate 40 Years of Advancing Software for National Security
Speakers at a September 4 event reflected on four decades of innovation in software, cybersecurity, and AI for defense—and what's to come.

See more news »

Latest Blogs

5 Essential Questions for Implementing the Software Acquisition Pathway and the Tools to Tackle Them
Eileen Wrubel, Rita Creel, and Brigid O'Hearn outline five essential questions to ask before implementing the Software Acquisition Pathway (SWP) and an SEI toolset to assist in the effort.

A Call to Action: Building a Foundation for Model-Based Systems Engineering in Digital Engineering
This blog post highlights a research agenda and calls to action for future work in MBSE and digital engineering from practitioners in the field.

My AI System Works...But Is It Safe to Use?
David Schulker, Matthew Walsh, and Emil Mathew introduce System Theoretic Process Analysis (STPA), a hazard analysis technique uniquely suitable for dealing with the complexity of AI systems.

See more blogs »

Latest Podcasts

Delivering Next-Generation AI Capabilities
Matt Gaston and Matt Butkovic discuss ongoing and future work in AI, including test and evaluation, the importance of hands-on experience with AI systems, and why government needs to continue partnering with industry to spur innovation in national defense.

The Benefits of Rust Adoption for Mission-and-Safety-Critical Systems
Vaughn Coates sits down with Joe Yankel to discuss the barriers and benefits of Rust adoption.

Threat Modeling: Protecting Our Nation's Software-Intensive Systems
Nataliya Shevchenko, Alex Vesey, and Timothy A. Chick explore how threat models can guide system requirements, system design, and operational choices to identify and mitigate threats.

See more podcasts »

Latest Publications

Automated Code Repair for C/C++ Static Analysis
This paper details the application of design, development, and performance testing to an automated program repair tool, built by the SEI's CERT Division, that repairs C/C++ code.

Design of Enhanced Pointer Ownership Model for C
This report describes the design for a new temporal memory safety model for C code and an implementation to enforce it.

Tailoring Security and Zero Trust Principles to Weapon System Environments

This report analyzes nine security and zero trust principles from a study about the applicability of foundational security and zero trust principles to weapon systems.

Concept-ROT: Poisoning Concepts in Large Language Models with Model Editing

This paper introduces a method for inserting trojans into LLMs that trigger on high-level concepts, bypassing safety and enabling harmful behaviors.

See more publications »

Latest Videos

Quantum Computing Meets High Performance Computing Skills in the Class

The SEI's Dan Justice and NVIDIA's Monica VanDieren discuss why high-performance computing (HPC) and AI skills are no longer optional for quantum professionals and how to prepare students for the reality of accelerated quantum supercomputing.

Achieving Balance: Agility, MBSE, and Architecture

Peter Capell addresses a practical vision for meeting stakeholder expectations of Agile implementation, highlighting the value of model-based systems engineering and architecture.

Identifying AI Talent for the DoD Workforce

Eric Keylor, Intae Nam, and Dominic Ross go beyond traditional knowledge and skill assessments as they introduce prototype tools that reveal key information about evaluating talent for AI and data positions.

See more videos »

Upcoming Events

Webcast - Using LLMs to Evaluate Code, October 1
Mark Sherman will summarize the results of experiments investigating whether various large language models (LLMs) could correctly identify problems with source code.

Webcast - Q-Day Countdown: Are You Prepared?, October 14
Brett Tucker, Dan Justice, and Matthew Butkovic will discuss the challenges to be expected with the realization of quantum computing capabilities.

Webcast - 5 Essential Questions for Implementing the Software Acquisition Pathway and the Tools to Tackle Them, October 22
Eileen Wrubel and Brigid O'Hearn discuss the launch of the Software Acquisition Go Bag resource kits, how to provide feedback for future Go Bag releases, and common questions when launching Software Acquisition Pathway programs.

AAAI Fall Symposium: Engineering Safety-Critical AI Systems, November 6-8, Arlington, Va.
As AI is increasingly applied to new and more high-risk settings, a mature safety engineering discipline for AI becomes ever more critical. Join the SEI to advance the discipline of engineering AI for safety.

See more events »

Upcoming Training

Software Architecture Design and Analysis
October 14-17 (Live Online)

Insider Risk Management Measures of Effectiveness (IRM-MoE) Certificate Package
October 28-30 (Live Online)

E-learning - CERT Artificial Intelligence (AI) for Cybersecurity Professional Certificate

E-learning - Introduction to Artificial Intelligence (AI) Engineering

E-learning - Effective Communication of Technical Concepts

Online registration **is now available for January-December 2026 public courses, both live online and in person.**

See more courses »

Employment Opportunities

Technical Lead

Embedded Software Engineer

Associate Real-Time Embedded Software Engineer

All current opportunities »