Software Engineering Institute | Carnegie Mellon University

SEI BULLETIN

September 24, 2014 | YouTube in f t | [Careers @ SEI](#)

The *SEI Bulletin* is a biweekly newsletter designed to keep you up to date on SEI news, events, research, and other matters of interest to the SEI community. Because of your past participation as an SEI member, you have been automatically subscribed to receive the *SEI Bulletin*. Should you not wish to continue receiving the *Bulletin,* you may unsubscribe with [SafeUnsubscribe.](#) We hope you find the *SEI Bulletin* useful and informative.

Send Us Your Story
Do you have a story about how an SEI technology has positively affected your team or organization? If so, the SEI would like to hear about it. Send a short summary of your success to info@sei.cmu.edu and you could be featured in a future issue of the *SEI Bulletin*.

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News: CERT Resilience Management Model Extended to Address Transport of International Mail

Developing and implementing measurable methodologies for improving the security and resilience of a national postal sector directly contribute to protecting public and postal personnel, assets, and revenues. Such methodologies also contribute to the security and resilience of the mode of transport used to carry mail and the protection of the global mail supply chain.

Since 2011, the U.S. Postal Inspection Service (USPIS) has collaborated with the SEI's CERT Division to improve the resilience of selected U.S. Postal Service (USPS) products and services. The CERT Resilience Management Model (CERT-RMM) and its companion diagnostic methods served as the foundational tool for this collaboration.
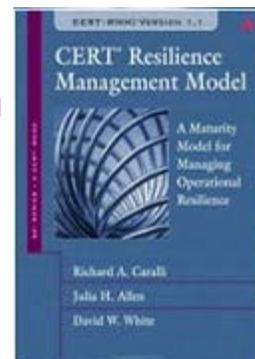
Three new SEI technical notes introduce extensions of CERT-RMM that address new mail-specific process areas for the transportation of international mail. The purpose of these extensions is to ensure all

international mail is transported in accordance with the standards established by the Universal Postal Union (UPU), which is the governing body that regulates the transportation of international mail.

Read the SEI technical notes:

- International Mail Transportation
- Mail Revenue Assurance
- Mail Induction

Also in the news:

- SEI Hosts Cybersecurity Address by DOJ's John P. Carlin
- Agile Collaboration Group Spurs Knowledge Sharing
- Insider Threat Center to Offer New Insider Threat Program Manager Certificate
- 2013 SEI Year in Review Available for Download
- CERT Guide to Insider Threat Named a Must-Read Cybersecurity Book

SEI Podcast Series: HTML5 for Mobile Apps at the Edge

Many warfighters and first responders operate at what we call "the tactical edge," where users are constrained by limited communication connectivity, storage availability, processing power, and battery life. In these environments, onboard sensors capture data on behalf of mobile applications to perform tasks such as face recognition, speech recognition, natural language translation, and situational awareness. These applications then rely on network interfaces to send the data to nearby servers or the cloud if local processing resources are inadequate.

While software developers have traditionally used native mobile technologies to develop these applications, the approach has some drawbacks, such as limited portability. In contrast, HTML5 has been touted for its portability across mobile device platforms as well an ability to access functionality without having to download and install applications.

Grace Lewis

In this podcast, Grace Lewis describes research aimed at evaluating the feasibility of using HTML5 to develop applications that can meet tactical edge requirements.

Listen to the podcast.

SEI Blog: Agile Metrics: Seven Categories

More and more, suppliers of software-reliant Department of Defense (DoD) systems are moving away from traditional waterfall development practices in favor of agile methods. As described in previous posts on this blog, agile methods are effective for shortening delivery cycles and managing costs. If the benefits of agile are to be realized effectively for the DoD, however, personnel responsible for overseeing software acquisitions must be fluent in the metrics used to monitor these programs.

Will Hayes

In this blog post, the SEI's Will Hayes highlights the results of an SEI effort to create a reference for personnel who oversee software development acquisition for major systems built by developers applying agile methods. This post also presents seven categories for tracking agile metrics.

Read the post.

Events: TSP Symposium 2014

The Team Software Process (TSP) Symposium will be held in Pittsburgh, Pennsylvania, November 3-6, 2014.

The TSP Symposium 2014 technical program will go beyond the core methodology of TSP to encompass a broader range of complementary practices that contribute to peak performance on system and software projects. The unifying theme of the conference is quality. Ultimately, a quality product and service must be delivered on time and within budget, be secure, be sustainable, and provide value to end users.

TSP Symposium 2014 will offer 40-minute experience-report presentations, 90-minute participatory sessions, and full-day and half-day tutorials.

In addition to sessions covering the core methodology of TSP, this year the symposium will also address other aspects of long-term sustainable achievement. Specific topics related to software quality may include the following:

- Overcoming obstacles in introducing TSP
- Disciplined measurement practices
- Culture change
- The executive view
- Architecture
- Agile practices
- Testing
- Security
- Personal Software Process (PSP) and TSP in academics

For more information and to register, please visit www.sei.cmu.edu/tspsymposium/2014/.

Events: FloCon 2015

FloCon 2015, the annual network security conference hosted by the SEI's CERT Division, will take place in Portland, Oregon, on January 12-15, 2015, at the Hilton Portland & Executive Tower.

Interested participants are invited to submit abstracts for presentations, posters, and demonstrations pertinent to this year's conference theme, "Formalizing the Art." Submissions should address the art of network analysis and methods for making it more formal, rigorous, reliable, well grounded, or repeatable. In particular, the FloCon committee encourages submissions related to academic advances in novel analytics, operationalization, and automation of well-known techniques.

For more information and to register, please visit www.cert.org/flocon/.

SEI Job Listings

Interested in joining the SEI? Below are a few recent employment opportunities. For more job listings and full position descriptions, check out the SEI Careers page.

Capability Development Analyst

Junior Network Security Analyst

Information Security Researcher

Training

Upcoming Classes:

November 18-19, 2014 (Pittsburgh, Pa.):
Documenting Software Architectures

November 18-20, 2014 (Arlington, Va.):
Introduction to the CERT Resilience Management Model

SEI eLearning Course:

Data Rights and DoD Acquisition

New Registration Portal
SEI Training has recently upgraded to a robust registration portal. The new portal provides simple and secure online access to course registration payments, a purchase history, confirmation letters, and receipts.

To view a video demo of the new SEI Registration Portal, please visit:
http://www.sei.cmu.edu/training/registration/

More SEI training opportunities...

Software Engineering Institute, Carnegie Mellon University
1-888-201-4479

Join Our Mailing List!

The SEI is a great place to pursue your passion. Headquartered in Pittsburgh, Pa., the SEI also has offices in the Washington, DC, and Los Angeles, Calif., metropolitan areas. Interested in working for the SEI? Visit our Careers page.