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| [Careers @ SEI](#)

In This Issue

- [SEI Makes KD-Cloudlet Software Freely Available](#)
- [SEI Podcast Series: Designing Security Into Software-Reliant Systems](#)
- [SEI Blog: 10 Recommended Practices for Achieving Agile at Scale](#)
- [Software Solutions Conference, November 16 - 18, 2015](#)
- [Nominations Sought for 2016 IEEE/SEI Watts S. Humphrey Award](#)
- [SEI Jobs](#)
- [Training Opportunities](#)

News: SEI Makes KD-Cloudlet Software Freely Available

As part of the SEI's mission to transition the technologies it develops to the larger software engineering community, the SEI has made its implementation of tactical cloudlets, KD-Cloudlet, freely available in its open-source code repository on GitHub. Using KD-Cloudlet, developers can turn any computational node running Linux—from a laptop to a more powerful server—into a discoverable node that can be used by nearby mobile devices for computation offload and data staging.



[Read More.](#)

Also in the news:

- [CERT Division Hosts High School Cybersecurity Competition](#)
- [SEI Contract Renewed by Department of Defense for \\$1.73 Billion](#)
- [SEI Hosts Crisis Simulation Exercise for Cyber Intelligence Research Consortium](#)
- [SEI Improves Access to Open-Source Tools and Establishes Home on GitHub](#)
- [2014 SEI Year in Review Available for Download](#)

SEI Podcast Series: Designing Security Into Software-Reliant Systems

As organizations become more dependent on software, security-related risks to their organizational missions are also increasing. Traditional security-engineering approaches rely on addressing security risks during the operation

and maintenance of software-reliant systems. However, the costs required to control security risks increase significantly when organizations wait until systems are deployed to address those risks. It is more cost effective to address software security risks as early in the lifecycle as possible. To address this issue, researchers from the CERT Division of the Software Engineering Institute (SEI) have started investigating early lifecycle security risk analysis. In this podcast, CERT researcher Christopher Alberts introduces the Security Engineering Risk Analysis (SERA) Framework, a systematic approach for analyzing complex security risks in software-reliant systems and systems of systems early in the lifecycle. The framework integrates system and software engineering with operational security by requiring engineers to analyze operational security risks as software-reliant systems are acquired and developed. Initial research activities have focused on specifying security requirements for these systems.



Christopher Alberts

[Listen to the podcast.](#)

SEI Blog: 10 Recommended Practices for Achieving Agile at Scale

This is the second installment of two blog posts highlighting recommended practices for achieving Agile at Scale that was originally published on the Cyber Security and Information Systems Information Analysis Center (CSIAC) website. The first post in the series by Ipek Ozkaya and Robert Nord explored challenges to achieving Agile at Scale and presented the first five recommended practices:



Kevin Fall

1. Team coordination
2. Architectural runway
3. Align development and decomposition
4. Quality-attribute scenarios
5. Test-driven development

This post presents the remaining five technical best practices, as well as three conditions that will help organizations achieve the most value from these recommended practices. This post was originally published in its entirety on the SPRUCE website.

[Read the post.](#)

Events: Software Solutions Conference, November 16 - 18, 2015

On November 16-18, 2015, the Carnegie Mellon Software Engineering Institute (SEI) will host its first Software Solutions Conference (SSC) in Crystal City, Va. The conference is designed to increase attendees' awareness of emerging technologies and technical strategies for assuring quality, timeliness, trust, and affordability in current and future software-reliant systems.



In addition to talks by leading experts in the field of software engineering, the conference will provide a forum for networking and participation outside of formal sessions and for influencing the SEI research agenda. The SEI is a federally funded

research and development center at Carnegie Mellon University dedicated to helping government and industry organizations acquire, develop, operate, and sustain software systems that are affordable, enduring, and trustworthy.

[Learn more and register.](#)

Events: Nominations Sought for 2016 IEEE/SEI Watts S. Humphrey Award

Nominations are now open for the 2016 IEEE Computer Society/SEI Watts S. Humphrey Software Process Award (SPA). Since 1994, the SEI and the Institute of Electrical and Electronics Engineers (IEEE) Computer Society have cosponsored the award, which recognizes outstanding achievements in improving an organization's ability to create and evolve high-quality software-dependent systems.



Watts Humphrey

Nominations must be submitted by October 15, 2015.

Achievements recognized by the Watts S. Humphrey Award can be the result of any type of process-improvement activity. They need not have been based on a specific framework, model, or body of software engineering principles, practices, techniques, or methods.

[Read more and learn how to submit your nomination.](#)

SEI Jobs

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? Below are a few recent employment opportunities. For more job listings and full position descriptions, check out the [SEI Careers page](#).

[Cyber Security Engineer - Exercise Developer](#)

[Research Scientist](#)

[More job listings...](#)

Training

Upcoming Classes:

September 24-25, 2015 (Pittsburgh, Pa.)

[Software Architecture Design and Analysis](#)

September 29 - October 1, 2015 (Arlington, Va.)

[Assessing Information Security Risk Using the OCTAVE Approach](#)



New SEI eLearning Course:

[Big Data Architectures and Technologies](#)

Registration Portal

SEI Training has a robust registration portal that provides simple and secure online access to course registration payments, a purchase history, confirmation letters, and receipts.

To view a video demo of the SEI Registration Portal, please visit

<http://www.sei.cmu.edu/training/registration/>

[More SEI training opportunities...](#)

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About the SEI Bulletin

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. 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.