

# SEI Bulletin

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## SEI Releases Source Code for Kalki IoT Security Platform

**August 19, 2020** — Commodity Internet-of-Things (IoT) devices can add functionality to an organization's IT infrastructure, but notoriously poor IoT security can put a network at risk. Kalki, a novel, software-defined IoT security platform, can allow IoT devices that are not fully trusted or configurable to be integrated into networked systems. The SEI's Software Solutions Division (SSD), in collaboration with Carnegie Mellon University's CyLab, recently released the source code for Kalki.

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[SEI News](#)

[Can We Trust Our Cyber-Physical Systems?](#)

An SEI-led team is developing the rapid certifiable trust approach: a

lightweight, scalable method to rapidly validate safe behavior of cyber-physical systems.

### [Building the Cybersecurity Maturity Model Certification](#)

In just one year, the SEI and its collaborators created one of the institute's most impactful projects.

### [Software Engineering Institute Contract Extended by Department of Defense for \\$2.7 Billion](#)

The U.S. Department of Defense (DoD) has extended its contract with Carnegie Mellon University (CMU) to operate the Software Engineering Institute (SEI) for an additional term of five years with a value of up to \$2.7 billion.

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## [\*\*Latest Blogs\*\*](#)

### [Migrating Applications to Kubernetes](#)

Richard Laughlin introduces a generic process for planning application migration to Kubernetes, a popular, cloud-native container orchestration system.

### [Managing the Risks of Adopting AI Engineering](#)

Brett Tucker gives steps for exploring and controlling the organizational risks of adopting artificial intelligence.

### [Verifying Timing in Undocumented Multicore Processors](#)

Bjorn Andersson describes an SEI project that verifies the timing of software executing on multiple cores without requiring information on shared hardware resources.

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## [\*\*Latest Podcasts\*\*](#)

[The Future of Cyber: Educating the Cybersecurity Workforce](#)

Bobbie Stempfley interviews Dr. Diana Burley, executive director and chair of the Institute for Information Infrastructure Protection, or I3P, and vice provost for research for American University.

### [Documenting Process for CMMC](#)

Andrew Hoover and Katie Stewart, architects of the Cybersecurity Maturity Model Certification (CMMC), discuss process documentation, a Level 2 requirement.

### [Agile Cybersecurity](#)

Dr. Carol Woody and Will Hayes discuss an approach that allows organizations to integrate cybersecurity into the agile pipeline.

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## [\*\*Latest Publications\*\*](#)

### [An Updated Framework of Defenses Against Ransomware](#)

This report frames an approach for defending against Ransomware-as-a-Service (RaaS) as well as direct ransomware attacks.

### [FloCon 2020 Presentations](#)

Presentations given at FloCon 2020, an annual event about the analysis of large volumes of traffic and the next generation of flow-based analysis techniques.

### [Historical Analysis of Exploit Availability Timelines](#)

This paper analyzes when and how known exploits become associated with the vulnerabilities that made them possible.

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## [\*\*Latest Videos\*\*](#)

### Webcast - [Quality Attribute Concerns for Microservices at the Edge](#)

Marc Novakouski and Grace Lewis review characteristics of edge environments with a focus on architectural qualities.

Webcast - [Agile in Government: Go for Insight, Not Just Oversight](#)

This webcast provided practical insights into how a Government Program Office can productively engage with a contractor using Agile and Lean methods.

Webcast - [Organizational Resilience in a Time of Crisis](#)

An organization can demonstrate operational resilience, when faced with both cyber and physical disruptions, if it focuses on the fundamentals and makes data-driven risk decisions.

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## Upcoming Events

### [NatCSIRT 2020](#)

National CSIRTs can share information, tools, techniques, and strategies that address problems unique to CSIRTs that are responsible for a nation or an economy.

### [FloCon 2021](#)

Our theme of Using Data to Defend is more critical than ever, given the security challenges of moving customers and vendors online and supporting a remote workforce.

**Note:** The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual event pages for the latest information.

[See more events »](#)

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## Upcoming Training

### [Insider Threat Program Manager: Implementation and Operation](#)

October 27-29, 2020 (SEI, live online)

### [Insider Threat Vulnerability Assessor Training](#)

December 8-10, 2020 (SEI, live online)

**Note:** The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual training pages for the latest information. You may also contact us at [courseregistration@sei.cmu.edu](mailto:courseregistration@sei.cmu.edu) or +1-412-268-7388.

[See more courses »](#)

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## [Employment Opportunities](#)

[Data Scientist](#)

[IT Security Engineer](#)

[All current opportunities »](#)

**Carnegie Mellon University**  
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