SEI Bulletin

Building the Cybersecurity Maturity Model Certification

August 5, 2020 — Defense Industrial Base (DIB) contractors must safeguard the confidential unclassified information (CUI) needed to produce materiel for the warfighter. In 2019, the SEI, in partnership with the Johns Hopkins Applied Physics Laboratory (APL), led the development of the Cybersecurity Maturity Model Certification (CMMC). Its mission was nothing less than to reform cybersecurity for the entire DIB, because every stolen schematic, design, and specification could erode the American military's technological advantage.

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 SEI News

Software Engineering Institute Contract Extended by Department of Defense for $2.7 Billion

The U.S. Department of Defense has extended its contract with Carnegie Mellon University to operate the SEI for an additional five years with a value of up to $2.7 billion.

[2019 SEI Year in Review Highlights Accomplishments in AI, Data Analysis, and More](#)
The SEI's roundup of projects showcases contributions to the National Defense Strategy.

[Anita Carleton Named Director of the SEI's Software Solutions Division](#)
The long-serving leader and researcher is advancing a national agenda for software engineering R&D.

[See more news »](#)

🖥️ Latest Blogs

[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.

[3 Metrics to Incentivize the Right Behavior in Agile Development](#)
This post presents three containment metrics that could incentivize the right behaviors in agile software development.

[Don't Incentivize the Wrong Behaviors in Agile Development](#)
This post by Pat Place and Will Hayes explores why you don't want to incentivize the wrong behaviors in Agile Development.

[See more blogs »](#)

🎙️ Latest Podcasts

[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.

CMMC Levels 1-3: Going Beyond NIST SP-171
Andrew Hoover and Katie Stewart, CMMC architects, discuss Levels 1-3 of the model and what steps organizations need to take to move beyond NIST 800-171.

See more podcasts »

📄 Latest Publications

Architecture Evaluation for Universal Command and Control
The SEI developed an analysis method to assess function allocations in existing command-and-control (C2) systems and reason about design choices and trade-offs when designing new C2 systems.

How to Instantiate SCAIFE API Calls
This technical manual provides techniques to help you start to instantiate SCAIFE API methods to integrate your own tools.

GraphBLAS Forum Collection
These publications describe GraphBLAS, a consortium of researchers that is building an API specification for graph analysis.

See more publications »

🎞 Latest Videos

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.

Webcast - [Solving Current Cyber Challenges: Academic and Industry Collaboration](#)
The chasm between what academia researches and what industry uses in cyber is wide. By building mutually beneficial collaborations between the two, we can improve algorithms, datasets, and techniques that are applicable to the real world.

📅 Upcoming Events

[Quality Attribute Concerns for Using Microservices at the Edge](#)
This webcast reviews characteristics of edge environments with a focus on architectural qualities.

[Risk Management for the Enterprise–How Do You Get Executives to Care About Your Risks?](#)
This webcast will help attendees with the guidance, information, tools, and sample materials needed for building and maturing an enterprise risk management program in their organization.

[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 »**](#)

Upcoming Training

Insider Threat Program Evaluator

September 22-24, 2020 (SEI, Live Online)

Insider Threat Program Manager: Implementation and Operation

October 27-29, 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 or +1-412-268-7388.

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Employment Opportunities

Digital Transformation Lead

All current opportunities »