



Carnegie Mellon University Software Engineering Institute (SEI)

Systems and Software Engineering Lunch and Learn Series

Session 11 of 12

Wed April 19, 2023
12:00 – 1:30 PM EDT

Mary Beth Chrissis
Carnegie Mellon University



Cybersecurity Assessments: First Step Towards Improving Your Operational Resilience



A FREE Virtual Event – Registration Required

1 PDU / CEU

Mary Beth Chrissis is a Senior Cybersecurity Engineer in the CERT Division at Carnegie Mellon University's Software Engineering Institute (SEI). In this role, Mary Beth leads major projects in software engineering, cybersecurity, organizational improvement, and strategic planning. She assists commercial and government organizations in their implementation of best practices that enable them to develop and deliver high quality, reliable, safe and secure products and services.

Among the highlights of Mary Beth's professional experience are her role as a primary author of the SEI's capability maturity models, which organizations worldwide use as de facto standards to assess and address risks; and as an author of two software improvement references: *CMMI: Guidelines for Process Integration and Product Improvement* and *The Capability Maturity Model: Guidelines for Improving the Software Process*. In addition, Mary Beth was the IEEE editor for the revision of *ISO 16085, Systems and Software Engineering, Lifecycle Processes, Risk Management*.

Prior to joining the SEI in 1988, Mary Beth worked at GTE Government Systems in Rockville, MD in the development of voice processing systems; at Dravo Automation Sciences in Pittsburgh, PA, in the creation of shop floor automation systems for the steel industry; and at Sperry Corporation in Great Neck, NY, in the development of defense systems.

Abstract: Confucius wrote, "If you don't know where you are going, any road will do." Watts Humphrey, an SEI fellow, adapted the quote to "If you don't know where you are, a map won't help." Many organizations try to define and manage their organizational risks without a roadmap or context of industry best practice. Cybersecurity assessments provide a means for organizations to evaluate their ability to protect information and information systems from cyber threats. The Cybersecurity and Infrastructure Security Agency (CISA) offers a range of cybersecurity assessments that evaluate operational resilience, cybersecurity practices, organizational management of external dependencies, and other key elements of a robust and resilient cyber framework. These professional, no-cost assessments are provided upon request on a voluntary basis, and help any organization manage risk and strengthen the cybersecurity of our Nation's critical infrastructure. This presentation provides an overview of these assessments, and discusses common cyber hygiene practices that help organizations be more resilient.

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Flyer v1, 14Apr2023, J. Stein

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