

System of Systems Engineering Collaborators Information Exchange (SoSECIE)

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System-of-Systems as an Overarching Paradigm

Presenter: Mr. Reggie Cole, Lockheed Martin Corporation

Abstract

We have typically segregated systems into Standalone Systems and Systems of Systems (SoS). This was certainly accurate in the early days of SoS. But as our world becomes hyper-connected - both within enterprises and across enterprises - more of our system problems are starting to take on the characteristics of systems-of-systems and fewer of them can truly be considered to stand on their own. So, what if we started thinking about all systems as if they were systems of systems? What would be the downside, what would be the upside, and how could we make it work? This keynote looks at that basic question in proposing system-of-systems as an overarching paradigm for systems engineering.

Biography



Reggie Cole is a Lockheed Martin Senior Fellow and Master System Architect who specializes in large-scale distributed systems and systems-of-systems. Over the past 30 years he has served as an Army officer, systems engineer, systems engineering department manager, system architect and enterprise architect. During that time, he has also served as chief engineer on two major U.S. DoD programs. His experience includes a broad spectrum of systems, including satellite control systems, tactical communications networks, commercial telecom systems, strategic command & control systems, logistics systems and enterprise information systems. He has authored a number of papers and has contributed to books in the system-of-systems area. He is currently the Chief Enterprise Applications Architect for Lockheed Martin Corporation.