


Top Challenges for Systems of Systems Engineering: Security and Trustworthiness

Nancy R. Mead, SEI
nrm@sei.cmu.edu

 Software Engineering Institute | Carnegie Mellon

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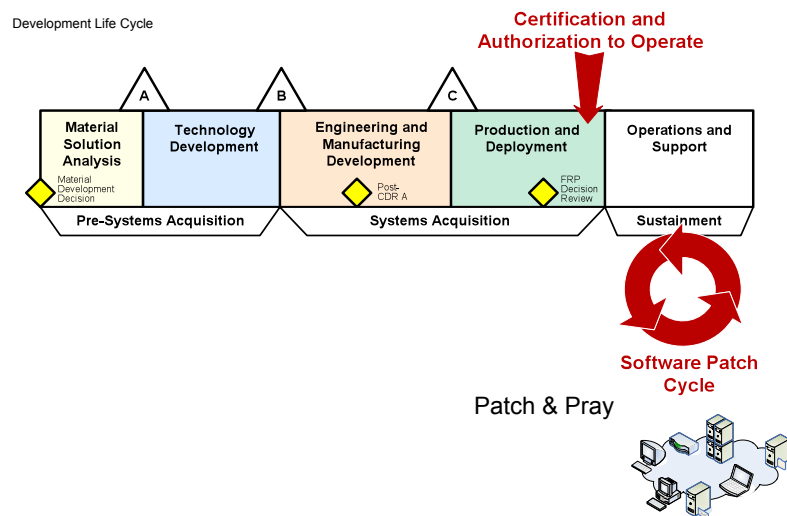
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System of Systems Security Challenges

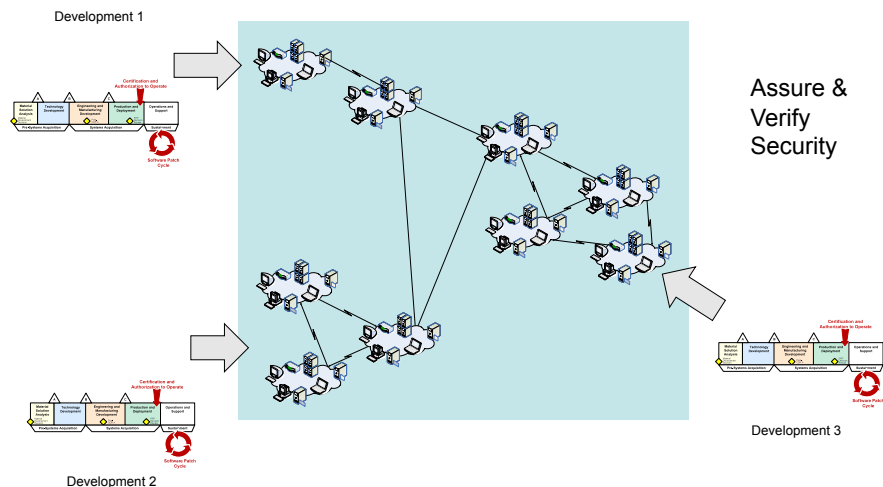
1. When there is a change in any single system or its operational environment, security may be compromised.
2. The problem of composing systems, while demonstrating security across the resultant system of systems, is difficult.
3. Security requirements engineering PRACTICE is limited, even for single systems



Current Challenge for Software Assurance



Operational Reality – Systems of Systems



Security Requirements Engineering

1. While there has been much research in security requirements engineering, it needs to be extended to be adequate for the security challenges of systems of systems.
2. There has been some research in requirements engineering for system of systems, but many of our requirements engineering approaches focus on end user functionality and not so much on quality factors such as security.

Security Requirements Engineering Survey

On Selecting Appropriate Development Processes and Requirements Engineering Methods for Secure Software

2009 33rd Annual IEEE International Computer Software and Applications Conference (COMPSAC)

Muhammad Umair Ahmed Khan and Mohammed Zulkernine

School of Computing, Queen's University

Kingston, Ontario, Canada, K7L3N6

mzulker@cs.queensu.ca



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Questions?



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