Practical Software and Systems Measurement

Software Acquisition Process Improvement Program

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Cheryl Jones
Background

• **Section 804 of Defense Appropriations Bill required DoD to implement a program for acquisition process improvement and performance measurement**

• **DoD Guidance added additional process areas and focus**

• **Components (services and agencies) are drafting plans to implement their programs**
Defense Appropriations Bill Requires:

- A program to improve the software acquisition processes, that includes:
  - Documented processes
  - Efforts to develop appropriate metrics for performance measurement and acquisition process improvement
  - A process to ensure appropriate training or experience
  - A process to ensure adherence to processes and requirements
Acquisition Processes

• Acquisition Planning *
• Requirements Development and Management *
• Configuration Management
• Risk Management *
• Project Management and Oversight *
• Test and Evaluation
• Integrated Team Management
• Solicitation and Source Selection
Approach

- **DoD Software Intensive Systems Steering Group (SISSG)** assigned responsibility for overseeing implementation of guidance.
- **OUSD (AT&L) and OASD (NII)** chair a SAPIP IIPT to provide guidance and a forum for sharing ideas and approaches.
- Components (services and agencies) responsible for development component programs and plans.
Key Questions of DoD and Components (initial)

• Does each component have a plan for continuous process improvement?
• Is each component implementing the plan?
• Does the plan address each of the acquisition areas?
Software Acquisition Process Improvement Program (SAPIP) Workshop
Objectives of the Workshop

• Identify information needs and measures applicable to enterprise and organizational acquisition process improvement activities

• (Acquisition Measurement workshop will address information needs and measures at the program level)
Workshop Format/Agenda

• ½ day
• Discuss information needs related to information categories for each identified acquisition process
• Discuss potential measures to address these information needs
Intended Output (workshop)

- ICM Table for acquisition process improvement programs identifying common information needs, related questions, and potential measures
- Outline for draft guidance
- Sample Measurement Specifications (initial)
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Intended Output (afterwards)

- Updated ICM Table for acquisition process improvement programs identifying common information needs, related questions, and potential measures
- Draft guidance (white paper)
- Sample Measurement Specifications