

Practical Software and Systems Measurement

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A foundation for objective project management



Software Acquisition Process Improvement Program

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***PSM 7th Annual Users' Group
Conference***

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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***

Workshop 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***

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- ***Outline for draft guidance***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)***

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- ***Draft guidance (white paper)***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***

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?***

Key Questions of DoD and Components (mid-term)

- ***What is the current baseline for state-of-the-practice?***
- ***Is software acquisition performance improving?***
 - ***Evaluate individual processes***

Key Questions of DoD and Components (long-term)

- ***Is software acquisition performance improving?***
 - ***Evaluate program performance at the aggregate level (e.g. cycle time, acquisition productivity, product quality trends)***

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***

Criteria for Defining and Prioritizing Information Needs

- ***804 Law and Guidance Requirements***
- ***Objectives, Goals, Issues***
- ***Existing Improvement Processes***
- ***Leveraged Technologies (e.g. spiral development, COTS)***
- ***External Requirements***
- ***Experience***

Information Categories

- ***Schedule and Progress***
- ***Resources and Cost***
- ***Product Size and Stability***
- ***Product Quality***
- ***Process Performance***
- ***Technology Effectiveness***
- ***Customer Satisfaction***