

Practical Software and Systems Measurement

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A foundation for objective project management

Acquisition Measurement—Workshop #1



Wed July 28, Afternoon

Thurs July 29, Morning

***PSM 8th Annual Users' Group
Conference***

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Objective of the Workshop

Develop and review draft guidance, based on program office experience, in three areas:

- ***Part a: Acquisition Cost Model***
 - ***Review and refine cost model parameters***
- ***Part b: Acquisition Measurement Guidance***
 - ***Discuss lessons learned and success factors in implementing measurement on the Acquisition Organization***
- ***Part c: Acquisition ICM Table and Measures***
 - ***Identify Information Needs, Measurable Concepts and candidate Measures related to the acquisition organization's role and tasking***

Solicit volunteers to

- ***participate in validating the Acquisition Cost Model***
- ***provide additional comments on and material for the Acquisition Measurement Guidance Strawman***
- ***develop specifications for one or more selected measures from the Acquisition ICM Table***

Practical Software and Systems Measurement Workshop Background

- ***Part a: Acquisition Cost Model Background***
 - ***Originally developed by Air Force Materiel Command to estimate AF acquisition resource needs (now in use primarily for Electronic Systems Center programs); being adapted to other environments***
 - ***PSM work began at the July 2003 UG Conference, and continued at the February TWG, with a review of draft cost model input parameters and the related Work Breakdown Structure (WBS).***
 - ***This workshop segment will review and refine the model and WBS.***

Practical Software and Systems Measurement Workshop Background Cont.

- ***Part b: Acquisition Measurement***
 - ***Initiated to provide guidance in measuring acquisition process performance***
 - ***Public law 107-314, Section 804 of the Bob Stump National Defense Authorization Act for FY03, requires all military departments and defense agencies that manage Major Defense Acquisition Programs (MDAPs) with a substantial software component to implement a software acquisition process improvement program.***
 - ***Measurement is needed to benchmark current process performance, identify issues, and justify and track the impacts of process improvements.***
 - ***Similar initiatives are underway for systems acquisition, beginning with Systems Engineering Revitalization programs across the DoD and at other gov't agencies.***
 - ***Work in this area is just beginning***

Practical Software and Systems Measurement Workshop Background Cont.

- ***Part c: Acquisition ICM Table and Measures***
 - ***Purpose is to identify and begin to specify some of the measures that can be used to assess acquisition organization products, processes and resources.***
 - ***Work began in July 2003, and was continued at the February 2004 TWG.***
 - ***This workshop segment will review and continue the work done thus far.***

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Workshop Format

- ***Agenda***
 - ***Workshop Background / Introduction***
 - ***Three-part Workshop***
 - ***Part a: Acquisition Cost Model (Wed 1:45-3:15)***
 - ***Part b: Acquisition Measurement Guidance (Wed 3:45-5:30 and Thurs, 8:30-9:00)***
 - ***Part c: Acquisition ICM Table and Measures (Thurs 9:00-12:00)***
 - ***Workshop Wrap-up***
- ***Techniques That Will Be Used***
 - ***Review and refinement of work completed to date***
 - ***Round-table discussions***
 - ***Documentation of results and updates to products***

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Intended Output - 1

- ***Users' Group Conference Products (by 30 July)***
 - ***Workshop outbrief, meeting minutes, and action items***
 - ***Key topics from lessons learned & information needs discussions***
 - ***Priority-grouped list of Acquisition Organization Measures and suggested measurement practices***
 - ***Recommendations for improvements to strawman, cost model, and ICM table***
 - ***Tentative volunteer list & assignments***
- ***Interim Products to be Placed on PSM Website***
 - ***September 2004***
 - ***Acquisition Cost Model & Work Breakdown Structure (WBS), v 1.0***
 - ***Strawman Acquisition Measurement Guidance***
 - ***Acquisition ICM Table & Measures, draft v 0.1***
 - ***March 2005***
 - ***Acquisition Measurement Guidance, draft v 0.1***
 - ***Acquisition ICM Table & Measures, v 1.0***

Practical Software and Systems Measurement Intended Output - 2

- ***Final / Updated Products to be Placed on PSM Website***
 - ***March or August 2005, depending on timeliness and nature of feedback***
 - ***Acquisition Cost Model & WBS, v 1.1***
 - ***ICM Table & Measures, v 1.1***
 - ***August 2005***
 - ***Acquisition Measurement Guidance, v 1.0***

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Workshop Inputs / Read-Aheads

- ***Workshop Description***
- ***From Users' Group Conference Website:***
 - ***Draft Acquisition Cost Model***
 - ***Draft Acquisition Services WBS***
 - ***Draft Strawman Acquisition Measurement Guidance***
 - ***Draft Acquisition ICM Table and Measures***
- ***From PSM Textbook/Guidebook:***
 - ***Overview of the PSM process***
 - ***Material on planning (called "tailoring" in the Guidebook) measurement***
 - ***Material on establishing (called "implementing" in the Guidebook) a measurement process***