An Update on the DT&E Committee’s Recommended Policy Changes to DoD 5000

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October 23, 2007
Current Events

• FY2007 DoDI 5000.2 Update
  – “Fact-of-life” changes – existing policy memos
  – No significant impact to our efforts

• FY2007 NDAA Section 231 Report
  – Report to Congress on T&E Policy & Practices
    • Focus on new/emerging acquisition approaches
    • Policy changes TBD
Current Events (cont)

• DT&E Defense Science Board
  – Formed to look at DT&E roles, practices
  – Focus on improving readiness for IOT&E
  – No impact on our efforts

• NDIA SED DT&E Committee Focus on DoD 5000 Recommended Policy Changes
  – These efforts provide complementary or alternative view
DRAFT POLICY WOULD BRING ‘OPERATIONAL FLAVOR’ TO WEAPON TESTING:

“... By incorporating more **realistic** tests of system reliability throughout the development process, officials hope to reverse a recent trend where fewer and fewer platforms meet operationally suitable and effective standards ...”

Quote from Charles McQueary, the military’s director of Operational Testing and Evaluation (DOT&E), told reporters Oct. 19. (DefenseNews.com)
Current Events (cont)

From Yesterdays SE Conference Opening Session, October 23, 2007:

– Dr McQueary’s chart – Actions to improve Suitability includes the DT&E Committee White Paper

– Dr Finley made a comment about strong DT&E prior to milestone C
2007 DT&E Committee Focus

• Three Focus Teams:
  – Earlier contractor and tester involvement
  – Integrated DT/OT and DT operational relevance (combined)
  – Suitability

• Recommend policy changes
  – Input to FY2008 DoD 5000 update
# Project Timeline

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- **Establish Teams** ▲
- **Review Team Scopes** ▲
- **NDIA SE Conf - Status** ▲
- **Working Meetings** ▲ △
- **Present Findings** △
- **Draft White Paper** △
- **Final White Paper** ◊

October 23, 2007
Focus Team Expectations

• Teams expected to collaborate between DT&E Committee meetings and present findings at the meetings
  – Collaborate via e-mail, telecon, etc.

• Product is a White Paper on DT&E policy change recommendations
  – Draft outline available
Focus Team Expectations

• October Meeting (in San Diego)
  – Initial draft white paper outline

• Workshop (tentatively January 23-24, 2008)
  – Initial draft of white paper
  – Recommendations presented to stakeholders for comment
  – Recommendations sent out to NDIA SED members for comment

• April 2008 Submittal
  – Team leads incorporate stakeholder and SED member comments, prepare final recommendations, and submit through NDIA SED
Earlier Contractor and Tester Involvement

• Identify the “T&E Community” to include both contractor and government DT, OT and Live Fire (LF) organizations

• The T&E Community needs to work in collaboration with the Acquisition Community in the earliest phases and decision points of the acquisition process.
  – Make T&E Community participation and products mandatory at all early phases
  – Involved the T&E Community as early as the Concept Definition phase of a program. This needs to be detailed in the JCIDS process.
Earlier Contractor and Tester Involvement

• The Test & Evaluation Strategy (TES) is developed too late in the acquisition process.
  – The TES should be mentioned in the Acquisition Strategy and fully developed by the T&E Community prior to the system RFP/SOW.

• Awareness of test readiness is lacking as a program matures.
  – Develop a Test Readiness Level hierarchy similar to technology readiness levels and implement as part of Concept Definition.

• Need earlier incorporation of the TEMP in the acquisition process.

• There is a lack of visibility between the various T&E organizations across the T&E phases.
Integrated DT/OT and DT Operational Relevance

- Current 5000.2 allows for a wide variety of integrated testing strategies – it needs to provide more specific direction
- Need to ensure clearly defined terms – Joint DT/OT, Integrated DT/OT, Combined DT/OT, etc.
  - There are current definitions but not necessarily totally agreed to yet across agencies
    - DAU is a way to work the commonality of terms
  - Some of the biggest issues are cultural between the different stakeholders
Integrated DT/OT and DT
Operational Relevance

• Several items from this team are very similar to Team 1
  – Earlier involvement & Funding needed
  – Need to understand all the Stakeholders (i.e. the T&E Communities that should be involved)

• Specific TEMP sections for integrated T&E need to be included & coordinated sooner with agreed to terminology, timelines, etc
  – Need PM & T&E in-sync on integrated T&E
  – How to transition from sequential events to a more integrated/concurrent T&E process
Suitability

• High percentage of programs deemed operationally effective, but NOT suitable
  – Ensure system suitability is a key feature of T&E Program
  – Requirements flowdown must include user definition of mission failure and scoring criteria
  – Identify potential operational failure modes and their mission impact early
Suitability

• Make T&E more operationally relevant
  – Test entire system in operational environment and scenarios

• Reliability as part of the T&E Program
  – Require mandatory reliability growth and assessment program in Request For Proposal
  – Health of Reliability program considered in each program/technical review with award fee criteria
Summary

• Significant effort by T&E and Acquisition Communities to provide more successful testing across a weapon systems life cycle
  – FY2007 DoDI 5000.2 Update
  – FY2007 NDAA Section 231 Report
  – DT&E Defense Science Board
  – NDIA SED DT&E Committee Focus