

Responsive and Agile IT T&E

Tampa, FL

March 16, 2011

Sources of Stakeholder Recommendations

- **Defense Science Board**
 - **Developmental Test and Evaluation, May 2008**
 - **DOD Policies and Procedures for the Acquisition of Information Technology, March 2009**
- **2010 National Defense Authorization Act (Sec 804)**
 - **Implementation of a New Acquisition Process for Information Technology Systems**
- **NDIA-OUSD (AT&L) System Engineering Division/Development T&E Committee and Software Industry Experts**
 - **Software T&E Summit/Workshop September 2009**
 - **Joint Authored White Paper, Dec 2009**
- **National Academies of Science Study**
 - **Achieving Effective Acquisition of Information Technology in the Department of Defense, December 2009**

DOD Agile IT Precepts

- 1) **achieve significant time and cost resource efficiencies**
- 2) **support software application “sprints”**
- 3) **provide tailored test environments established on demand**
- 4) **create a virtual library of systems and services to avoid having to stand up physical systems for every test**
- 5) **establish a DOD wide accepted restructured IT T&E process**

Panel Members

Panel Chair

Dr Steven Kimmel
Senior VP Alion Science and Technology

Interop/Network Cert/Assurance

Dr Steven Hutchison
Test and Evaluation Executive, DISA

OT&E

Dr James Streilein
Dep Dir DOT&E (Comm & Space Systems)

DT&E

Ms Darlene Mosser-Kerner
Dep Dir, DT&E (AT&L/DDRE)

OSD/NII

Mr Eustace King
DIACAP Tiger Team

Panel Introduction

Approach

Engage with the AUDIENCE to understand and explore the community of challenges, issues and solutions via Q & A's vice death by ppt.

GOAL

Achieve an integrated T&E responsive,
effective and efficient
(mission-focused on-demand)
agile capability

Panel Focus

Customer complaint: IT testing is a serial process that costs too much and takes too long to complete.

The Challenge:

- 1) How to integrate users and testers such that a common set of standards can address joint interoperability and information assurance testing into an agile, mission focused team.**

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How to network DOD testing capabilities so that we are able to test things in parallel, i.e., establish a realistic test environment whereby one test affords sufficient & thorough “stakeholder” data collection

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- 1) How to integrate users and testers such that a common set of standards can address joint interoperability and information assurance testing into an agile, mission focused team.
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How stovepipe test beds be melded together to enable testers to locate needed assets, connect them into the test, collect the data needed, then release the asset when the test has been completed.

Opening Panel Question

What are the impediments to achieve a “virtual” network that can satisfy a “parallel” efficient IT T&E process?

Panel Question # 2

What are the technical, policy or procedural obstacles that need to be overcome to --

- 1) achieve an operationally realistic environment whereby IT test data can be shared across DT-OT-IA-certifications and accreditation?**
- 2) “test by one, accept by all”, e.g., IT T&E reciprocity**

Closing Comments

- **IT systems are different than weapons systems...current DOD 5000 inappropriate for both**
- **DOD agile developed IT systems/applications are on the horizon.....IT “sprints” projects will cause closer collaboration between users, developers and testers**
- **“Soda straw” or serial T&E to be replaced by parallel acceptance, certification, accreditation, interoperability and integration– test once, accept by all.**

Information Systems Summit II

“What’s All This Agile Stuff About, Anyway?”

April 4-6, 2011

Event #1750

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