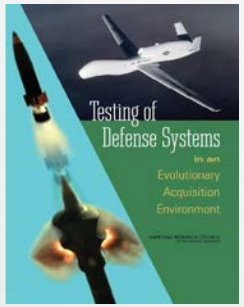
ENSURE THE RIGHT CYBER TESTING ACQUIRED

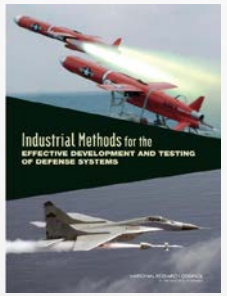
TOM WISSINK, NDIA T&E CONFERENCE, MARCH 2017

MANY IMPROVEMENTS RECOMMENDED TO T&E ACQUISITION



2006 – Testing of defense systems in an evolutionary acquisition environment

- results from several hearing, studies, etc



2012 – Industrial Methods of the Effective Development and Testing of Defense Systems

– Focus is on scientific testing approaches and methods like DOE and combinatorial test design

Weapon Systems Acquisition Reform Act of 2009

- Acquisition Organization Updates/Enhancements
  - Section 101 System Engineering Capabilities
  - Section 102 Developmental Testing (New Director position)
    - Include responsibility for integration & test of software
  - Section 103 Technological Maturity Assessment
  - Section 104 Independent Cost Assessment
  - Section 105 Role of Combatant Commanders

2008 – Defense Science Board on DT&E

A Defense Science Board (DSB) Task Force on Developmental Test and Evaluation (DT&E) was convened in the summer of 2007 to investigate the causal factors for the high percentage of programs entering Initial Operational Test and Evaluation (IOT&E) in recent years which have been evaluated as both not operationally effective and not operationally suitable. The following are the specific issues which the Task Force was asked to assess:

National Defense Authorization Act 2012 includes:

- New Government role: "Chief Developmental Tester"
  - The Chief Developmental Tester drives T&E activities across the entire program life cycle, ensuring consistency with customer's T&E Strategy.

MANY IMPROVEMENTS RECOMMENDED TO T&E ACQUISITION

National Defense Authorization Act 2013 includes:

- Annual report to Congress on:
  - Programs that don't follow DT&E recommendations
  - About technical maturity and integration risks of critical technologies
- Presidents budget shall include DT&E line item
- Increase to DT&E staff to support program oversight

In March 2014:

- **DoDI 8500.01, Cybersecurity**
  - Cybersecurity requirements must be identified and included throughout the lifecycle of the system including acquisition, design, development, developmental testing and operational testing
- **DoDI 8510.01, Risk Management Framework**
  - The RMF will inform the acquisition process for all DoD IT, including developmental and operational T&E
  - Ensure T&E of system is planned, resourced, and documented in the program TEMP

NDIA ICOTE DELIVERABLES TRYING TO HELP

- ICOTE's "Early T&E (Shift Left) White Paper" – November 2012

- ICOTE's "Partnering For Success: The Chief Developmental Tester And Industry Test Lead" White Paper – January 2015

RECOMMENDATIONS FOR ACQUISITION

- Ensure a robust TEMP is included with the RFP. The TEMP should state cyber security will be T&E'ed by the DT and OT organizations.
  - Utilize the Cybersecurity T&E Guidebook when formulating the RFP, TEMP and Develop Evaluation Framework
- The Chief Developmental Tester ensures a robust T&E program including cyber security testing (both government and contractor)
- RFP should require an Industry Test Lead included with key personnel

RECOMMENDATIONS FOR ACQUISITION

- The RFP package, specifically sections L&M, the SOW and/or the SOO should solicit a contractor proposal response on how they will ensure readiness for DT & OT testing including cyber security testing
- Ensure proposal page count is allocated to a testing section requiring cyber security testing be included
- Ensure Testing/Cybersecurity Testing is part of proposal evaluation

BOTTOM LINE

YOU GET WHAT YOU ASK FOR