



NDIA ATE Meeting Army Report

12 March 2009

Agenda

- **Army TMDE**
- **IFTE Programs Update**
- **Major Army Aviation and Ground Initiatives**
- **New Administration on Defense**
- **Questions**

Current ATS Policy

IFTE NGATS fills both an Operational Requirement and Implements DoD, HQDA & ASA(ALT) Policy for Automatic Test Systems

GAO
Report to the Chairman, Subcommittee on National Security, Emerging Threats, and Counterterrorism, Committee on Government Reform, House of Representatives
MILITARY READINESS
DOD Needs to Better Manage Automatic Test Equipment Modernization

Satisfies GAO Report on Automatic Test Equipment

GAO issued a report in Mar 03 (GAO-03-451) on how DoD needs to Better Manage Automatic Test Equipment Modernization. *“...limited progress in achieving compliance across all the services with DoD Policy advocating the development of common systems”*

Implements Current USD approved DoD ATS Policy

USD Memorandum dtd 28 Jul 04 designates IFTE as the single DoD approved Army ATS Family in response to GAO Audit 03-451 *“Military Readiness; DoD Needs to Better Manage Automatic Test Equipment Modernization”*

Complies with Current ASA(ALT) ATS Policy

The ASA(ALT) issued compliance memo dtd 22 Oct 04 in support of DoD ATS policy statement

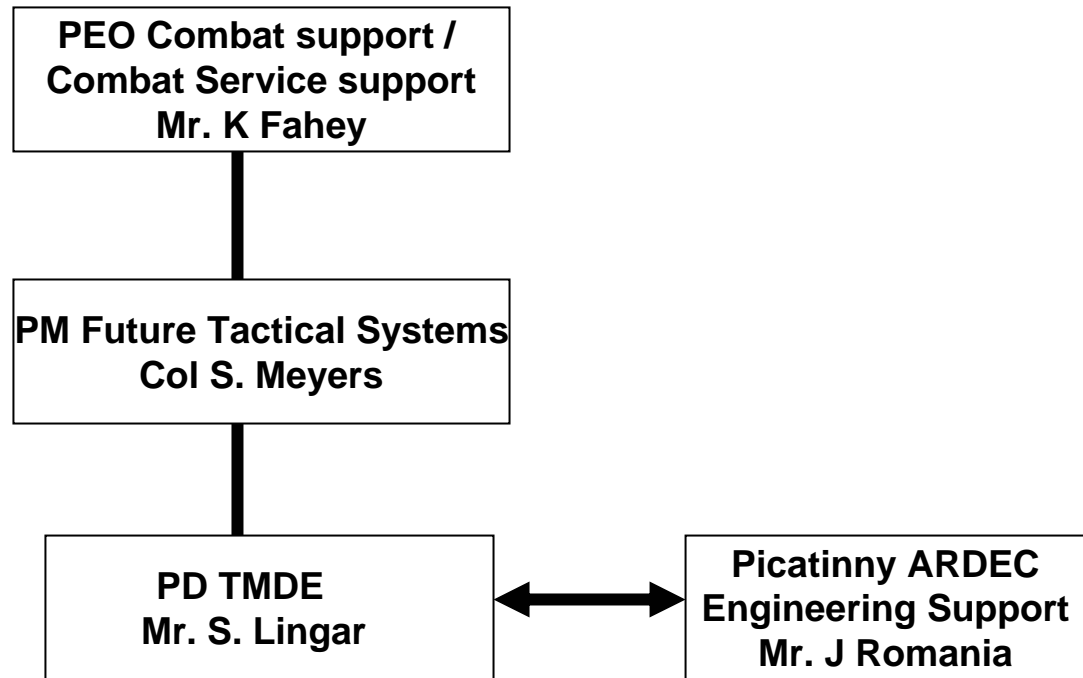
Complies with AR 750-43

DA regulation that implements service policy and **specifically designates IFTE as the Single preferred ATS in the Army**

DoD Policy is Driving to a Single ATE Solution



ARMY TMDE Organization



TMDE Overview

Maintenance Support Device

Next Generation Automatic Test System

TMDE Modernization Program

Calibration Sets



Used by all weapon systems maintainers at Field and Sustainment Levels to perform At platform maintenance.



Supports repair of Line Replaceable Modules at Field and Sustainment Levels for multiple weapon systems.



Provides Field and Sustainment Level testing of weapon systems operational tolerances.



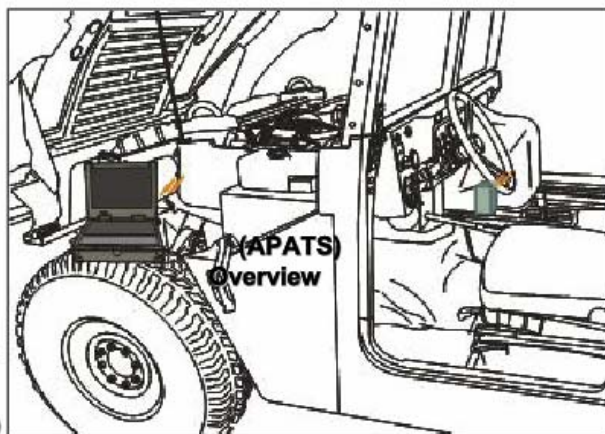
Performs Sustainment Level calibration / quality assurance for General Purpose Electronic Test Equipment that supports weapon systems.

Innovation for Today and Tomorrow's Expeditionary Forces

At-Platform Automatic Test Systems (APATS) Overview



Maintenance Support Device- Version 2 (MSD-V2) is the current at-platform general-purpose automatic test system supporting test and diagnostic requirements of current/future forces.



Wireless Internal Combustion Engine (WICE) is the next generation ICE kit to provide at-platform automatic test diagnostics and wireless connectivity between MSD-V2 and current/future tactical vehicles.



Vehicle Integrated Diagnostic Software (VIDS) for use in the Vehicle Computer (VC) in all current production, RECAP, and new production tactical vehicles for on-board embedded diagnostics.

Hook up on 1553, vehicle buses using interfaces cards
system level testing that leads to fault isolation to a single LRU or cable

5 June 2008

Innovation for Today and Tomorrow's Expeditionary Forces

IFTE NxGen ATS (NGATS)



Description:

- Highly Mobile
- Rapidly deployable
- General purpose and Reconfigurable
- Next generation Automatic Test System which directly supports testing/screening of Army weapon systems to maintain their readiness to SHOOT, MOVE & Communicate

Status:

- Milestone "B" approved
- DT/OT Completed Q4 CY 2008
- Milestone "C" 2009
- FUE August 2010

Fielding Objective:

- Replace Obsolete Legacy ATE
 - DSESTS
 - IFTE V3 & V5

NGATS a Future Combat System (FCS) Associate Program

NGATS Status

- **DT/OT completed Q4 2008**
- **OT assessment report January 2009**
- **NGATS Approved Nomenclature Q1 2009**
 - **AN/TSM-217 Mounted configuration**
 - **AN/USM-723 Dismounted configuration**
- **PEO Milestone “C” decision March 2009**
- **LRIP initial award expected March/April 2009**
- **HBCT 140 TPS re-host completion by Q3 CY2010**
- **FY10 - FY15 POMD for ~250 systems consisting of:**
 - **IFTE NGATS, trucks, generators & shelters**
 - **Ancillary equipment & government administration**

Army Aviation Programs

- **Apache**
 - Airframe upgrades to Longbow configuration
 - M-TADS/PNVS Fielding Complete by 2015
- **Kiowa Warrior**
 - ARH canceled Q4 2008
 - Upgrades to KW will extend it's life until 2020
- **UH-60M**
 - Cutting edge avionics
 - Health monitoring system
 - IOC 2009; Production of 1262 next 20 years
- **The UH-72A Light Utility Helicopter (LUH)**
 - Commercial airframe based
 - Conduct light general support tasks in non-combat environment
 - Modern Digital displays
 - Total 51 fielded; total contact 123; fielding 3-5/year
- **CH-47F**
 - Glass Cockpit
 - Digital Flight controls
 - 452 Ch-47F's to be built through 2018

Army Heavy Combat Initiatives

- Abrams:
 - Modernization end state of 15 HBCTs (70 Abrams per brigade)
 - Start date FY 2017
 - Complete date FY 2025
- Bradley:
 - Modernization end state of 15 HBCTs (140 Bradleys per brigade)
 - Start date FY 2017
 - Complete date 2025
- Stryker:
 - Modernization end state of 8 SBCTs (332 Strykers per brigade)
 - Start date FY 2017
 - Complete date FY 2025
- Paladin:
 - Modernization end state of 600 Paladins (16 HBCT Battalions)
 - Start date FY 2012
 - Complete date FY 2032
- FCS:
 - Start Fielding 2015 – 2030 questionable
 - Under pressure by Pentagon & Congress
- JLTV:
 - Three Development contracts awarded Q4 2008
 - 58,000 vehicles to replace HMMUV

Administration Early Implications for the Defense Market



- **President Obama on Defense**
- **National Security Strategy**
- **Projected Tenets Next QDR & NDS**
- **Potential Budget and Market Impacts**

Feb 2009

Obama National Security Team

- **White House**
 - National Security Advisor – Gen James Jones (USMC, Ret)
 - Deputy National Security Advisor – Thomas E. Donilon
 - Homeland Security Advisor – John Brennan
 - Chairman National Economic Council – Lawrence H. Summers
- **Department of Defense**
 - Secretary of Defense – Dr. Robert Gates
 - Deputy Secretary – William Lynn
 - Under Secretary for Policy – Michele Flournoy
 - Under Secretary for Acquisition Technology & Logistics – Ash Carter?
 - Under Secretary for Personnel & Readiness – TBD
 - Under Secretary for Intelligence – TBD
 - Under Secretary for Financial Management & Comptroller – Robert F. Hale
 - Chairman JCS – Adm. Mike Mullen
- **Department of State**
 - Secretary of State – Hillary R. Clinton
 - Deputy Secretaries – James B. Steinberg, Jacob Lew
- **Department of Homeland Security**
 - Secretary of Homeland Security – Janet Napolitano
 - Deputy Secretary – Jane Holl Lute (nominated)
- **Intelligence Community**
 - Director of National Intelligence – ADM Dennis C. Blair (USN, Ret)
 - Director CIA – Leon Panetta
- **Treasury**
 - Secretary of the Treasury - Timothy Geithner

Administration on Defense

Defense Capabilities	Rebuild our military for missions of the future ; rebalance capabilities to ensure success in both conventional and stabilization and counter-insurgency operations; will review each major weapons program
Iraq	Withdraw combat brigades by summer of 2010; no permanent bases; continue to train & support
Afghanistan	Focus on OEF , surge forces and defeat the Taliban
Supplemental Funding	Not to be used for buying predictable requests; will be subject to stringent oversight
Size of the Force	Supports USA and USMC personnel increases ; non-committal with USN and USAF
National Guard and Reserves	Larger role for state and Federal HLS missions; full equipping
Acquisition Reform	It is badly needed; increased oversight and transparency; opposed to cost+ contracts
Missile Defense	More rigorous testing before deployment; needs a serious scrub ; re-look deployment
Private Contractors	Reduce outsourcing ; deployed contractors subject to law
Nuclear Weapons	No rush to produce a new generation of nuclear warheads; focus is on new non-proliferation initiatives
Test Ban Treaty	Will build consensus for ratification
Cyber security	Wants a national cyber adviser; top priority
Permanent OCONUS Bases	None except where the host country desires
Veterans, MILPER & Families, and Healthcare	Fully fund VA needs; expand healthcare, child care, and family support; eliminate Stop-Loss;

Projected Tenets of Next QDR and NDS

- **Hybrid warfare** (simultaneous blend of conventional and irregular) most common; must be prepared to respond to the full spectrum
- Assure strategic deterrence with a **smaller nuclear stockpile** and survivable delivery systems
- **Prioritize** providing **current forces** the resources needed to win the current fight
- Increase capabilities for **irregular warfare and stability & support operations**; improve integration with other departments/agencies
- **Accept & manage risk with regard to conventional capabilities** / major combat operations
 - Defer major modernization efforts for weapons platforms
 - Sustain a technical edge through increased RDTE
 - Leverage similar capabilities between Services
 - Maintain modest but upgraded, mid-to-long range, conventional strike capabilities
- Build defensive and offensive **Cyberspace** capabilities
- Increase capabilities for **Homeland Defense and civil support**
- **Institutionalize changes** in acquisition to better support 21st Century needs
 - Rapid acquisition of low tech solutions for immediate wartime requirements
 - Sustained development of specialized equipment suited for counterinsurgency
 - Accurate cost projection and constrained technology reach for conventional needs

Potential Budget & Market Outcomes / Impacts



Market Segment Impacts Over the FYDP

Relative Ranking

- Significant shift in market priorities (as well as available resources) is underway
- On budget shift to support of near term needs
- Priorities within segments also change
- Implementation
 - FY10 PB -- Expect broad changes in direction with some meaningful terminations / adjustments
 - FY11 PB
 - Will reflect the QDR and new National Security Strategy
 - A major submission (no two-year budget cycle with odd years fact of life changes)
 - FY12 PB -- will deliver on campaign promises; in execution during run up to the Nov election

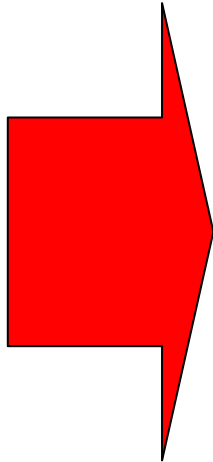
Significant Shift in Market Priorities

	Bush	Obama
1	Fixed Wing	ISR
2	Air & Missile Defense	Cyber
3	Ships	C2
4	Contract Services	Communications
5	ISR	Training – simulators
6	Communications	Strike Missiles
7	C2	Precision Munitions
8	Helicopters	Helicopters
9	Soldier/ Marine Equipment	Fixed Wing
10	Wheel Cbt Veh	Ships
11	Precision Munitions	Air & Missile Defense
12	Strike Missiles	Soldier/ Marine Equipment
13	Cyber	Wheel Cbt Veh
14	Training – simulators	Track Cbt Veh
15	Track Cbt Veh	Tactical Missiles and Munitions
16	Tactical Missiles and Munitions	Contract Services

Program Impacts Over the FYDP

Relative Ranking

	Obama
1	ISR
2	Cyber
3	C2
4	Communications
5	Training – simulators
6	Strike Missiles
7	Precision Munitions
8	Helicopters
9	Fixed Wing
10	Ships
11	Air & Missile Defense
12	Soldier/ Marine Equipment
13	Wheel Cbt Veh
14	Track Cbt Veh
15	Tactical Missiles and Munitions
16	Contract Services



Key Winners
IRAS, SSA, Guardrail, Shadow, Raven
JBCP, NECC, NGEN, CANES
WGS, JTRS HMS, MALD/J
OH-58D, LUH
KC-X, C-5 & C-130 Mods, CSAR-X, EA-18G, Next Gen Bomber, B2 Mods
DDG-51, AEGIS BMD
KEI, SM-3, SM-6, SBT, THAAD, Arrow, AN TPY-2
M-ATV, Stryker, HMMWV / ECV II
Paladin Imp Program
Medical Services

Terminate, Restructure, Buy Out
Space Radar, TSAT, ACS, EP(X), JLENS, STUAS/Tier II
JTRS GMR, Link 16 MIIDS
FCS LSI, FCS SoSCOE, CAC2S
ARH, FCS Firescout
F-22, C-17
DDG-1000, CG-X
ABL, GMD, MKV, MEADS, EIS, EMR
FCS MGVS, NLOS-C, EFV, MPC
FCS MRM, ATACMS, JAGM, NLOS-LS, JDRADM, AMRAAM
Prof/Admin/Mgt Spt Svcs, Base Ops & Spt Svcs (OEF, OIF)

