



NDIA Army ATE Liaison Report

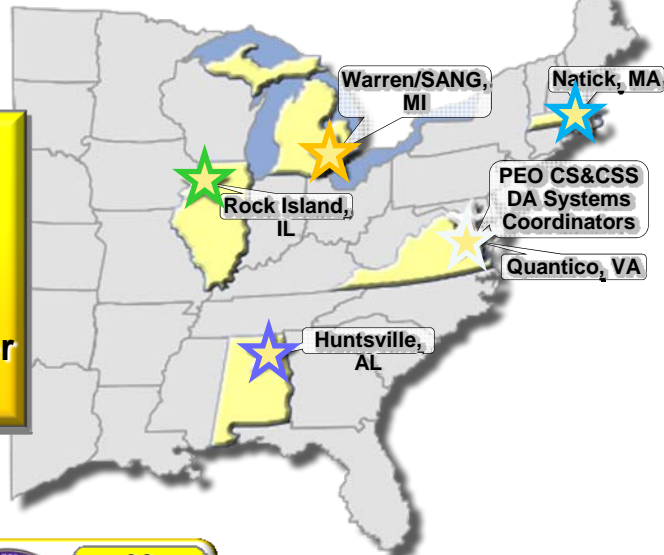
8 June 2011

Lisa Pollock

Agenda

- PEO CS&CSS
- TMDE
 - MSD
 - NGATS

PEO CS&CSS Organization



Program Executive Officer
Mr. Kevin Fahey
Deputy PEO
Mr. Thomas Bagwell, Jr.
Chief of Staff / Executive Officer
Ms. Linda Reichlmayr



145 Programs

Project Manager Force Projection
1 JUL *COL Robert Fletcher*
 DPM: Mr. Steve Roberts

Product Manager Bridging
 Mr. David Marck

Product Manager Combat Engineer/Material Handling Equipment
13 JUL *LTC Nelson Kerley*

Product Manager Force Sustainment Systems
 LTC Daryl Harger

Product Manager Petroleum & Water Systems
 LTC Dariel Mayfield

Product Director Army Watercraft Systems
24 MAY *Ms. Shannon Tighe*

210 Programs

Project Manager Joint Combat Support Systems
 PM: COL John Myers

Product Manager (USA) Joint Light Tactical Vehicles
10 JUN *Mr. Mark McCoy*

Product Manager (USMC) Joint Light Tactical Vehicles
19 JUL *Lt Col Casey Travers*

Product Manager Sets, Kits, Outfits & Tools
25 JUN *LTC Eric Rannow*

Product Director Test, Measurement, & Diagnostic Equipment
 Mr. George Mitchell

Product Director Horizontal Technology Integration
12 APR *Mr. Fred Williams*

38 Programs

Project Manager Mine Resistant Ambush
2 JUN *Mr. Carl Owens*
 PM: COL Kevin

Product Manager MRAP - All Terrain Vehicle
 LTC Coll Haddon

Product Manager Joint Logistics
 LTC John Conway

Product Manager MRAP Vehicle Systems
 LTC Andrew Oderkirk

Product Manager Assured Mobility Systems
8 JUL *Mr. Kenneth Wojcik*

98 Programs

Project Manager Tactical Vehicles
 PM: COL David Bassett
 DPM: Mr. Tony Shaw

Product Manager Light Tactical Vehicles
 Mr. Dennis Haag

Product Manager Medium Tactical Vehicles
 LTC Shane Fullmer

Product Manager Heavy Tactical Vehicles
28 JUN *LTC Paul Shuler*

Product Manager Armored Security Vehicles
24 JUN *LTC Anthony Morano*

TMDE Overview

Maintenance Support Device



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

Next Generation Automatic Test System



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

TMDE Modernization Program



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

Calibration Sets



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

Innovation for Today and Tomorrow's Expeditionary Forces

DoD / Army ATS Policy

- Approved JCIDS Capability Production Document
- Consolidates to a single system for Field, Sustainment and Depot support IAW DoD, ASA(ALT) and Army Policy
- Implements Joint technologies and multi service support capability
- Included in DoD Logistics Roadmap
- Supports AUTL Sustainment warfighting function

AR 750-43
Under
Review

Complies with AR 750-43

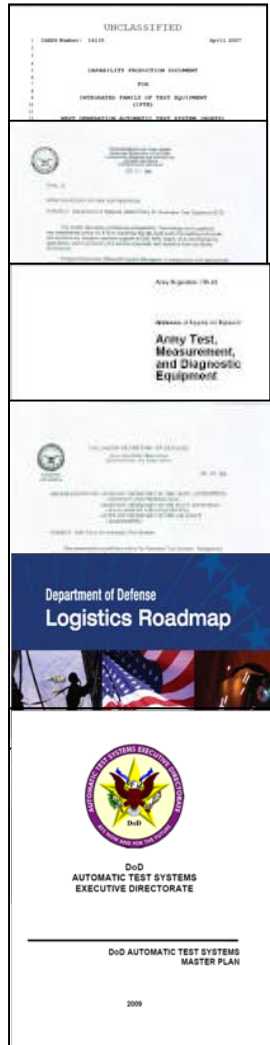
Department of the Army regulation that implements service policy and specifically designates IFTE (Base Shop Test Facility) as the single standard ATS to be utilized by all Army weapons systems.

Implements Current USD approved DoD ATS Policy

USD Memorandum dtd 28 JUL 2004 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 DA ASA(ALT) Policy

The ASA(ALT) issued a memorandum dated 22 Oct 04 implementing the DoD ATS policy statement for Army Program Management Offices



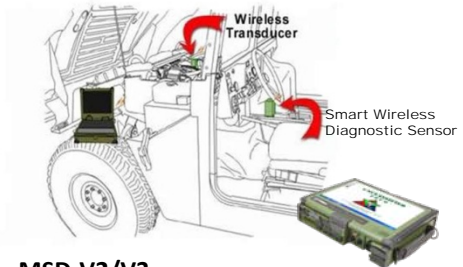
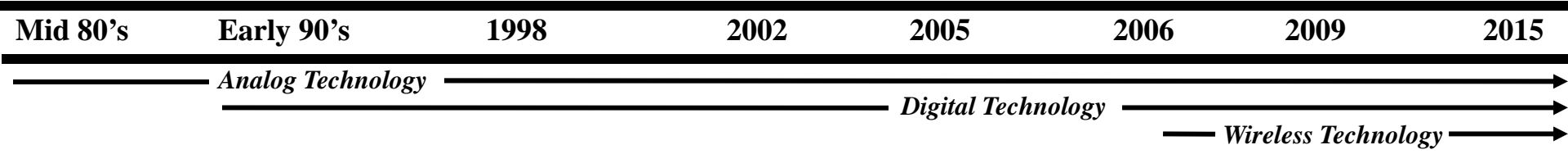
Active TMDE Acquisitions

- MSD V3 Production
 - Contract Awarded 18 Sep 09
- MSD V2
 - First Article Testing in Progress
- NGATS LRIP
 - RFP Issued 16 Oct 09, Amendment 1 29 Oct 09
 - UCA / Letter Contract Awarded 20 Nov 09
 - Contract Negotiations Completed 13 Aug 09
 - Contract Award 21 Dec 10
 - Log Demo Complete Dec 2010

Active TMDE Acquisitions

- NGATS LRIP (Con'td)
 - Post Award Conference Feb 2011
 - RFP for Two NGATS for Anniston Army Depot Feb 2011
 - PRR March 2011
 - QPR June 2011
 - PVT to begin June 2011
 - 56 DSESTS TPSs Migrated to NGATS LRIP
 - VIP Day August 2011
 - LUT to begin September 2011
 - Roll Out Ceremony December 2011

PD TMDE ~ APATS Hardware Timeline



Simplified Test Equipment-Internal Combustion Engine & STE-ICE/Reprogrammable
 Performed diagnostics using a common connector; required mechanic to manually decode diagnostic messages

Contact Test Set (CTS)
 1st generation DOS based controller/computer features a Graphical User Interface (GUI) & IETM technology

Soldier Portable On-System Repair Tool (SPORT)
 Compact Automatic Test Equipment (ATE); Windows based, fielded 1998-2002 with Digital Multi-Meter (DMM) Internal Combustion Engine (ICE) kit

MSD
 Successor to SPORT fielded 2002-2006 with Serial ICE kit

MSD-V2/V3
 MSD-V2 FUE 2006
 MSD-V3 FUE 2010 (Projected)
 "Smart" WICE kit FUE 2010 (Projected) eliminates cables/adapters, less weight, Auto-Troubleshooting capability reduces soldier interface



Maintenance Support Device (MSD)



- Internal Combustion Engine Testing
- Mission Planning Software Up-loader
- IETM Diagnostic Software Host
- Digital LogBook

PERFORMANCE:

- 25% reduction in maintenance task time, quicker, more accurate diagnoses
- Automates / eliminates the use of multi-meters, oscilloscopes, paper manuals, etc. used to troubleshoot and isolate faults

SPECIAL FEATURES:

- Operates over an extended temperature range in rain, sand, and dust, and survives a 36-inch drop
- Passes 160 degree Fahrenheit temperature test

FIELDING:

AAO: 35,558
 FUE: 2006 (MSD-V2)
 Projected 2010 (MSD-V3)
 FIELDING PLAN: IAW AOP and as TPF or ASIOE with weapons supported

PRIME CONTRACTOR:

VT Miltope, Hope Hull, AL

ACQ STRATEGY:

Competitive award production contract based on performance specification

SCHEDULE:

Production and deployment phase

Supports More than 50 Weapon Systems & 30 Maintainer MOS's

- Abrams
- Apache
- Armored Security Vehicle
- Army Tactical Missile System
- Avenger
- Aviation Mission Planning System (AMPS)
- Base Shop Test Facility
- Blackhawk
- Bradley
- Calibration Sets
- Chinook
- CROWS
- Deployable Universal Combat Earthmover
- Explosive Ordnance Disposal
- Family of Medium Tactical Vehicles
- Firefinder Radar
- Forward Repair System
- Fox

- Heavy Equipment Transporter System (HET)
- Heavy Expanded Mobility Tactical Truck (HEMTT)
- Heavy Tactical Trucks
- Hellfire
- Hercules
- High Mobility Artillery Rocket System (HIMARS)
- High Mobility Multi-Purpose Wheeled Vehicle (HMMWV)
- Hunter
- Hydraulic Excavator
- Javelin
- Joint Attack Munitions System (JAMS)
- Joint Cargo Aircraft
- JLENS
- Joint Light Tactical Vehicle
- Joint Robotics
- Joint Tactical Ground Station
- Kiowa Warrior

- Knight
- Lightweight Howitzer
- Logistical Support Vehicle (LSV)
- Long Range Advanced Scout Surveillance Systems
- Marine Corps Tactical Unmanned Aerial System
- Mine Resistant Ambush Protected (MRAP)
- Multiple Launch Rocket System (MLRS)
- Paladin
- Palletized Load System
- PEO Integration
- Patriot
- Sentinel
- Shadow
- Stryker
- Tactical Quiet Generators
- Theater High-Altitude Area Defense
- Wolverine

Maintenance Support Device-Version 3 (MSD-V3) Kit

Rugged, general-purpose automatic tester that performs quick diagnoses and fault isolation on the Army's aircraft and vehicles while functioning as an Interactive Electronic Technical Manual (IETM) and Electronic Technical Manual (ETM) reader. Also used as a software uploader/verifier to restore or provide new software to weapon systems. Supports testing requirements of Army current to future force weapon systems.

FEATURES AND PERFORMANCE: TYPE 1

CORE

- 2.26 GHz Multiple Core Processor with 4GB min of RAM
- Solid State Hard Drive 160 GB min (Removable)
- 10.4" (1024X768) Touch Screen Sunlight-Readable Display
- Integrated MIL-STD-1553 connection
- PC Card, ExpressCard, and Smart Card Readers
- Ports: 3 USB, 1 Serial RS-232/422/485, SVGA, LAN, Audio
- Dual Li-Ion battery operation (6 hr Operation per each)

DOCKING STATION

- DVD-RW/CD-RW
- Ports: 1 USB, 1 RS232/422/486, Modem, Parallel

PHYSICAL AND ENVIRONMENTAL FEATURES

- Operates at temperature ranges up to 160 Degrees Fahrenheit, in the rain, sand, dust, withstands a 36-inch drop test, HEMP and EMI tests
- Shoulder strap allowing for carrying and maintaining three point contact with Aircraft
- Physical envelope 11" x 10" x 4" size (Core and Docking Station)
- Physical weight 13 lbs (Core and Docking Station)
- Input Power 100/240 VAC, 18-32 VDC



Next Generation Automatic Test Station (NGATS)



Automatic Test Station



TPS Storage



Description:

A highly mobile, rapidly deployable, general-purpose, reconfigurable automatic test system which directly supports testing and screening of Army weapon systems to maintain their readiness to shoot, move, and communicate. **Designated to replace Direct Support Electronic Systems Test Set (DSESTS) and Base Shop Test Facilities (BSTF), versions 3 and 5.**

NGATS Fielding:

- NGATS will replace legacy ATE
- Projected AAO is 142 systems
- Projected to fulfill total force HBCT support requirement by FY15
- Compo 1/2 requirement can be filled in FY14

NGATS Status:

- PEO Approved Milestone C (LRIP) (May 2009)
- PEO Approved Updated TEMP (Oct 2009)
 - LUT I: Completed Nov 2008
 - PVT/LD II: FY10 - FY11
 - LUT II: FY12
- Increment 1 TPS rehost – TACOM TPS Center ARDEC led IPT

Current and Future Major Weapon Systems Supported by OPATS

