Operational Testing and Training Mission Support for the Objective Force

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Overview

- The Transforming Army
- Testing the Objective Force
- Training the Objective Force
- STRICOM unifying test and training investment
- A Possible Future
The Transforming Army

- Responsive
- Deployable
- Agile
- Versatile
- Lethal
- Survivable
- Sustainable
Our Objective Force Army

- Objective Force is Distributed and Network Centric
- Current test and training infrastructure not designed to suit
- Changes occurring throughout the entire Army to adapt to the Objective Force

Distributed Weapons Platforms

Synchronization is the Key to an Integrated and Networked Objective Force

Responsive Deployable Agile Versatile Lethal Survivable Sustainable
Testing the Objective Force

- Must immerse weapon system into distributed force
- WHICH MAY NOT BE FULLY AVAILABLE!
- Simulation will take on substantial importance to testing
- Distributed systems require standardized approaches
Training the Objective Force

- End of Self-Reliance
  - One system targets
  - One system protects
  - Another system shoots

- Unit Set Fielding
  - Each Army element a unique fighting force

- Training must adapt
  - EW major threat to crucial C4I Systems
  - Simulation allows reconfigurable training
  - New mission and deployment possibilities
STRICOM Unifying Test and Training Investment

- Sharing Existing Assets
- Targets
- Threat Simulators
- Bringing Customers Together
- ATTIC
- HLA Interfaces
- Common Data Links
- Proposing New Mutual Technologies
STRICOM does NOT develop requirements

But ... We research our customers’ requirements

And ... We look to industry and academia for solutions

And ... We encourage commonality
Standard Army TSPI

- Uniform data stream
- Plug-and-play compatibility
- Commonality to operations, testing, and training
• **Common Vehicle Interface:**

  • Systems currently require multiple interfaces for testing and training (MAIS, MILES, TWGSS, PGSS, etc.)

  • Standardized interface across the fleet enables plug and play testing, training, and diagnostics
Embedded Testing and Training

- Permits deployed forces to maintain readiness
  - Immediate ability to train
  - Immediate access to vehicle diagnostics
- Builds on Common Vehicle Interface protocols
Standard Army Dismounted Troop Instrumentation

**Dismounted Troop Instrumentation**

- Ties troop data standards to vehicle data standards for testing and training purposes
  - Combines Land Warrior, Air Warrior, Test, and Training investment in Dismounted Troop instrumentation
    - (One vest, one laser, one fuel source, one antenna, etc.)
  - Army buys more for less
Common Laser for Simulated Area Weapons Effects (SAWE)

Combines MAIS, MILES, and Land Warrior test and training laser systems

MAIS, MILES, and Land Warrior Share:

- One laser
- One power supply
- One fuel
- One antenna
Networking the Future

Pursuing Common Networking Standards for Testing and Training

- STRICOM Integrating Testing and Training Systems to High Level Architecture (HLA)
  - Testing: FI2010, VISION, OASIS
  - Training: CTIA, CTC-OIS, ONETESS, ONESAF
A Possible Future

Uniform Instrumentation which enables Shared Operational Testing and Training Operations
STRICOMs Role in Army Transformation
Development of a Simulation Environment for Full Spectrum Operations

LEGACY FORCE
- MILES
- SAWE-MILES II / AGES II

OBJECTIVE FORCE
- CORE DIS Facilities
- Engagement Skills Trainer
- BCT IVTS
- AVCATT - A CATT
- Virtual Targets Center (VTC)
- Objective MAIS

INTERIM FORCE
- TACSIM BBS CBS CSSTSS
- CBS RTM DCST DBST WARSIM
- OneSAF WARSIM
- Joint Threat M&S Center (JTMSC)

LIVE
- MILES 2000
- MILES XXI
- Live Training Transformation
- OneTESS

VIRTUAL
- Objective MAIS

CONSTRUCTIVE

2000 First Interim BCT 2003 First Unit Equipped

Joint Threat M&S Center (JTMSC)
On Point for the Army in Interoperable Training, Testing, Instrumentation, and Simulation Solutions for the Army’s Transformation to the Objective Force!