LIVE TRAINING CAMPAIGN PLAN

COLs Reedy and Flanagan

6 December 2012 Update

Visit the Live Training Community Portal at: LT2Portal.org
PM TRADE - I/ITSEC 2012 Schedule of Events

**MONDAY, 3 DECEMBER**

PM TRADE Grey Beard Session - COL Flanagan, Invitation Only
- 1200 - 1400
- W203A

**TUESDAY, 4 DECEMBER**

Victory Architecture and Specification Briefing - Pat Sincebaugh
- 1000 - 1200
- W207C

ATESS Industry Day - Kyle Platt
- 1200 - 1315, Brown Bag Lunch
- W203A

**WEDNESDAY, 5 DECEMBER**

PM TRADE TSIS Update - COL Flanagan
- 1300 - 1345
- PM TRADE Booth 171

Meeting with MAST Customers - Michael Plumtree, Invitation Only
- 1300 - 1400
- W204B

Target Modernization - James Todd
- 0900 - 1100
- W203A

**THURSDAY, 6 DECEMBER**

Integration of Live Training Standards - Mark Dasher
- 1130 - 1300, Brown Bag Lunch
- W203A

Meeting with Aviation FMS Customers - Edward Grekoski, Invitation Only
- 1300 - 1400
- W204B

Product Support Publication Requirements - Robin Alexander
- 1000 - 1100
- W204B

**Live Training Campaign Plan Brief**
- COL Flanagan
  - 1300 - 1500
  - W300

Visit the Live Training Community Portal at: LT2Portal.org

PM TRADE - Contact Information
Presenters

COL Mike Flanagan
PM TRADE

LTC Chuck Worshim
PM CTIS

LTC Craig Ravenell
PM DT

LTC Scott Tufts
PM LTS

LTC Keith Smith
APM FMS

Mr. Jim Grosse
TRADE Architect

Mr. Brian Kemper
Chief Engineer, PM TRADE

Mr. Rob Wolf
Strategic Requirements Integrator,
PM TRADE

Mr. Jim Brewer
Chief, Requirements
& Integration Office
“The Army is facing a new era of warfare, and that requires a new approach to training.”

Gen. Robert Cone, CG, TRADOC, Army Times, 2 October 2011

“We must be prepared to operate across the full spectrum of conflict, whether it’s offense, defense, stability or civil support operations. Regardless of the mission, we at PEO STRI pledge to provide timely, realistic, readily available, cost efficient and safe training to U.S. and its allied nations’ Warfighters.”

Dr. James T. Blake, Program Executive Officer, PEO STRI
Significant Guidance from OSD/HQDA

1. AAE: Guidance to PEOs on Common Operating Environment (Dec 11)
2. AAE: Process Management & Performance Improvement (Jan 12)
3. “Changing the Acquisition Paradigm” LTG Phillips, AL&T Magazine (Jan 12)
4. AAE: Tech Data Rights Strategy, Tech Dev Strategy/Acq Strategy (11 Jun 12)
5. CAC-T: FY13 Warfighter Outcomes for Training & Education (16 Jul 12)
6. TRADOC Policy Letter 21, Acquisition of TADSS & Gaming (14 Aug 12)
7. AAE 30-year plan on Army S&T Path Ahead to VCSA (3 Oct 12)
8. Army Training Strategy (15 Oct 12)

Renewed Focus on Training & Agility in Acquisition
Army Force Generation - Update

- AC transition from 36-month to 24-month Readiness model
  - 12 Month BOG/12 month Dwell (AC)
  - Stress/competition for training resources
- Regional focused BCTs
- BCT organization changes from two to three-battalions
- 27 Regional Collective Training Capabilities (RCTC) locations
- Decisive Action Training Environment (DATE), Security Force Assistance Team (SFAT), Mission Rehearsal Exercise Rotations at CTCs

RESET (3 mos) Force Pool
- Soldier-family reintegration
- Reconstitute personnel and equipment
- Individual training
- Comprehensive soldier fitness
- Units designated as CEFs or DEFs

TRAIN/READY (9 mos) Force Pool
- Progressive Readiness IAW ARFORGEN Aim Points and the collective training strategy for Full Spectrum Operations

AVAILABLE (12 mos) Force Pool
- Units prepared to deploy or to execute Combatant Commander’s or other Army requirements

Mission Execution

Return from AVAILABLE Pool to the RESET pool

7 December 2012
Army Training Strategy (15 Oct 12)

Targeted investments in Home station training, combat training centers, and TSS capabilities.

- Move from adhoc Blended training to Integrated Training Environment (system of systems)
- On-Demand, distributed collective training network
- Develop TADSS that operate over OP networks, mirror complexity, allow Cdrs to execute Training strategies

TSS Objectives (4/9)

1. Deliver LVC-IA to selected home stations
2. Modernize CTC-IS at NTC (15), JRTC (17), and JMRC (19)
3. Program Army Training Summit III req’ts, reallocate TADSS to Regional Collective Training Capabilities (RCTC)
4. Modernize other components of CTC TADSS Pilar

Training in a time of transition, uncertainty, complexity and austerity
Training Input from BG Mike Lundy, CAC-T

- Collaboration between CAC & PEO STRI on technology initiatives and reducing barriers to training (i.e. Information Assurance)

- Breaking down stovepipes and enabling LVCG solutions across training domains (i.e. constructive wrap on ranges)

- Intuitive Weapon System designs – possible KPP to reduce associated training requirements

- Reduction of “guys in ties” running TADSS

- Comprehensive Aviation Training review
Better Buying Power 2.0

Achieve Affordable Programs
- Mandate affordability as a requirement
- Institute a system of investment planning to derive affordability caps
- Enforce affordability caps

Control Costs Throughout the Product Lifecycle
- Implement “should cost” based management
- Eliminate redundancy within warfighter portfolios
- Institute a system to measure the cost performance of programs and institutions and to assess the effectiveness of acquisition policies
- Build stronger partnerships with the requirements community to control costs
- Increase the incorporation of defense exportability features in initial designs

Incentivize Productivity & Innovation in Industry and Government
- Align profitability more tightly with Department goals
- Employ appropriate contract types
- Increase use of Fixed Price Incentive contracts in Low Rate Initial Production
- Better define value in “best value” competitions
- When LPTA is used, define Technically Acceptable to ensure needed quality
- Institute a superior supplier incentive program
- Increase effective use of Performance-Based Logistics
- Reduce backlog of DCAA Audits without compromising effectiveness
- Expand programs to leverage industry’s IR&D

Promote Effective Competition
- Emphasize competition strategies and creating and maintaining competitive environments
- Enforce open system architectures and effectively manage technical data rights
- Increase small business roles and opportunities
- Use the Technology Development phase for true risk reduction

Improve Tradecraft in Acquisition of Services
- Assign senior managers for acquisition of services
- Adopt uniform services market segmentation
- Improve requirements definition and prevent requirements creep
- Increase use of market research
- Increase small business participation
- Strengthen contract management outside the normal acquisition chain – installations, etc.
- Expand use of requirements review boards and tripwires

Improve the Professionalism of the Total Acquisition Workforce
- Establish higher standards for key leadership positions
- Establish stronger professional qualification requirements for all acquisition specialties
- Increase the recognition of excellence in acquisition management
- Continue to increase the cost consciousness of the acquisition workforce – change the culture

Eliminate Unproductive Processes and Bureaucracy
- Reduce frequency of OSD level reviews
- Re-emphasize AE, PEO and PM responsibility and accountability
- Eliminate requirements imposed on industry where costs outweigh benefits
- Reduce cycle times while ensuring sound investment decisions

Mr. Kendal
Acting DAE

Ms. Shyu
Army Acquisition Exec
What's New about Live Training?


Supporting PM TRADE Goals

- Reduce Operational Cost & Complexity
- Align & Support Product Development (common standards, interfaces)
- Enhance Soldier Training
- Reduce Sustainment & Development Costs
- Increase Technology Agility
- Leverage Other Army Systems
  - Align to Army COE, Mobile Computing and Cloud Strategies

- Directed in the LTS-FTS ICD

Recognized as the Army’s Best Team in 2012 for Information Enabled Technology (~$400M cost avoidance)

FY12 AMSO M&S Award - Cross Cutting Category "Embedded Training and Development of Common Test and Training Solutions"
PM TRADE Technology “HYPE” Cycle

Technology Gap Identification
- Cyber
- Emerging Laser
- Blended Reality
- Autonomous Targets
- CCS INST
- Emerging non contact hit/tracking sensor

Technology Expectations
- Fuel Cell
- Cognitive Radios
- Subsonic Ballistics Tracking
- Real Time Thermal Representation
- Intelligent AAR

Requirements don’t align with technology or technology investment
- Low Cost Position/Motion Sensors
- Mobile Computing
- TESS Componentization
- Test/Training

Alignment of requirements and technology
- Virtualization
- Mobile Architecture/Devices
- LTEC
- SOA

Producing ROI
- Software Product Lines

Technology Expectations
- TaaS
- UAS/Aviation
- Cloud Computing

*HYPE Cycle Concept source: Gartner Inc

7 December 2012
**Product Line Update**

**PM TRADE Strategic Goals**
- Reduce Operational Cost & Complexity
- Align & Support Product Development
- Enhance Soldier Training
- Reduce Sustainment & Development Costs
- Increase Technology Agility
- Leverage Other Army Systems
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**Goals/Questions/Metrics**

**SOA Design Principles**
- Standardized Service Contracts
- Service Loose Coupling
- Service Abstraction
- Service Reusability
- Service Autonomy
- Service Statelessness
- Service Discoverability
- Service Composability

**Target Architecture**

**Transition Architectures Defined to Align with Capabilities Required by LT2 Products**

- **Transition Architecture 1**
  - Land Navigation Prototype

- **Transition Architecture 2**
  - Full Land Navigation (STS) Use Case

- **Transition Architecture 3**
  - Full TRACR Use Case

- **Transition Architecture 4**
  - Full HITS Use Case

- **Transition Architecture 5**
  - Supports Regional Training Center Use Case

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**PM Infrastructure**
- Web-Based 2D Map
- Participant Definition Tool
- Mobile Device Support
- Complete 2D Map, Alerts, Observations
- Instrumentation / Targets, Tactical Voice, Indirect Fire
- Exercise Planning & AAR
- Supports full CTC-IS, Distributed Training, Deployable SOI
**Product Line Update**

<table>
<thead>
<tr>
<th>Completed</th>
<th>Current</th>
<th>Future</th>
<th>Training as a Service (TaaS) Enabled</th>
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### Continuous Activities

- Testing, Open Source vs. Third Party
- Trade Studies
- IA Accreditation
- Documentation
- Training
- Education

### SOA Analysis

- Baseline
- SOA Experimentation
- SOA Ready
- Transition Architecture 1
- Transition Architecture 2
- SOA Capable
- Transition Architecture 3
- Transition Architecture 4
- Transition Architecture 5
- SOA Enhanced
- SOA Persistent
- SOA Mature

**Align with COE and Computing Environments**

- Establish Governance / Synchronize with TCM-Live & External Customers
- Identify Business Goals and Metrics
- Collect / Analyze Metrics
- Synchronize with Site Hardware
- Obsolescence Plans
- Synchronize with LT2 Product Teams

**SOA Mature**

- Training as a Service (TaaS) Enabled
  - On-demand capabilities
  - Technology agnostic
  - Backwards compatibility
  - Increase interoperability
  - Mobile computing devices
  - Lower sustainment costs
  - Support net-centricity
  - Support COE objectives

**Improve LVC Interoperability**

**Transition with Mission Command Community**

**Collect / Analyze Metrics**

**Synchronize with LT2 Product Teams**

**Continuous Activities**

- Testing, Open Source vs. Third Party
- Trade Studies
- IA Accreditation
- Documentation
- Training
- Education
Standards/ICD Calendar

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- **Start of Effort**: Yellow diamond
- **Published**: Black diamond
- **Industry Feedback**: Black square
- **Planned**: White square
- **Active**: Green square

Date: 7 December 2012
Live Training in 2012

- Fort Irwin, CA
- Fort Carson, CO
- Fort Bliss, TX
- Fort Hood, TX
- South Korea
- Rodriguez Range

Click on location for more information
Foreign Military Sales

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Requirements Roadmap

Force-on-Force

- OneTESS
- I-MILES
- I-HITS

Force-on-Target

- NTC IS
- JRTC IS
- CMTC IS

CACTF

- DMPRC, I-MTS, NGATS
- Standard Target Systems


ICD

Development

- CDD

Production

- CDD
- CPD 1-n

LVC-ITE Ver #1

- A-TESS CDD

LVC-ITE Ver #2

- A-TESS CPD

LVC-ITE Ver #3

Common Standards & Architecture
PEO-STRCTIA & LVC-IA /ITE

Commonality

Reduced costs

Embedded TESS & Instrumentation

Standardizing the Opposing Forces

- OPFOR SWV CPD
- OPFOR CDD
- OPFOR Wpns Eff CPD
- OPFOR Aviation CPD
- OPFOR Track Veh CPD

EE PEG role

Shared Information

Army Modernization

Live Training Transformation Family of Training Systems (LT2-FTS) ICD

LIVE TESS RDT&E

HITS Fielding

CTC-IS CPD

Tng IS CDD

Tng Instr CPD

FASIT CPD

Instru Range CPD

Standard Target Systems

CACTF Fielding

7 December 2012
# Force on Force LOE

## Near Focus Area

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<td>Appointed MILES</td>
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## Mid-Term Focus Area

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## Training as a Service (TaaS) Enabled

- Disciplined CCB to control standards, define interfaces, integrates with Ranges, Instrumentation
- Complete TDP Ownership
- Expedite
- Form Multiple to Single Instrumentation Systems
- LTEC Vehicle
- LTEC Manned

## Automation

- Automated Casualty/Maintenance Assessment RDT&E
- MDC Compliance
- Detector/SAT sensitivity and power definition
- New replacement MILES laser applications
- Medical applications
# Force on Target LOE

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<th>Mid-Term Focus Area</th>
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Vision

Training as a Service (TaaS) Enabled

SOA

Standards

COE and Computing Environments

SOA

Capable

Enhanced

Persistent

Mature

7 December 2012
Industry Engagement Opportunities

Industry Workshops/Breakfasts

Feb 6, 0700 – Next Industry Breakfast at Oviedo IHOP – RSVP, rob.wolf1@us.army.mil
Feb 6, PAN Standard Evolution - Orlando – PIII 321
Feb 7, Battery Standard Initiation – Orlando – PIII 321
Feb – Date TBD - ATESS Requirement Update, Orlando

PM TRADE

Industry input throughout 2012 reflected in internal PM TRADE processes to improve our quality and consistency.

Implemented internal program planning gates across the PM/PdM and matrix offices.

- Initial Program Planning Round Table
- Technical Interface/ Interoperability Review
- Acquisition Strategy Planning Session
- RFI & Synopsys Review – Market Research
- Technical Peer Reviews
- Sources Sought & Industry Days
- Pink Team → Initiates PALT

7 December 2012
Welcome to the Live Training Community portal, where we develop, support and communicate our Live Training initiatives for the Army. Our intent is to facilitate communication with developers, users, and our industry partners to support standards and common solutions for Live Training. Our goal is to reduce total ownership costs while improving quality, interoperability, and reusability across Live, Virtual, Constructive, and Joint training/test domains for our Soldiers, our Joint Services partners, and the Nation.
Contact Information

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COL Gene Reedy
Director
TRADOC Capability Manager
Live Training (TCM-Live)
Office: (757) 878-5572
stanley.e.reedy.mil@mail.mil

LIVE TRAINING - IT'S NO GAME
REAL SOLDIERS, REAL ACTION, REAL SWEAT

Visit the Live Training Community Portal at: LT2Portal.org