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**
Target Modernization - James Todd
- 0900 - 1100
- W203A

**THURSDAY, 6 DECEMBER**
Product Support Publication Requirements - Robin Alexander
- 1000 - 1100
- W204B

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

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

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

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

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

Visit the Live Training Community Portal at: LT2Portal.org
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
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

Infantry operating dismounted (spiraling to other dismounted formations)
**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 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

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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

- Cloud Computing
- UAS/Aviation
- Autonomous Targets
- CCS INST
- Emerging non contact hit/tracking sensor
- Blended Reality
- Cognitive Radios
- Emerging Laser
- Cyber
- Test/Training
- Mobile Computing
- GPS Denied Environment
- Subsonic Ballistics Tracking
- Intellligent AAR
- Real Time Thermal Representation
- Low Cost Position/Motion Sensors
- SOA Cellular Networks
- LTEC
- ET Mobile Architecture/Devices
- TESS Componentization
- Software Product Lines
- Virtualization

Technology Gap Identification
Technology Expectations
Requirements don’t align with technology or technology investment
Alignment of requirements and technology
Producing ROI

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*HYPE Cycle Concept source: Gartner Inc
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
- Align to Army COE, Mobile Computing and Cloud Strategies

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

SOA 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>
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<th>Completed</th>
<th>Current</th>
<th>Future</th>
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<tr>
<td>FY 11</td>
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<td>FY 15</td>
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## Align with COE and Computing Environments

- **Completed**
  - SOA Experimentation
  - SOA Analysis
  - Baseline
  - SOA Ready
  - Transition Architecture 1
  - Transition Architecture 2
  - Transition Architecture 3
  - Transition Architecture 4
  - Transition Architecture 5
  - SOA Capable
  - SOA Enhanced
  - SOA Mature

- **Current**
  - 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

- **Future**
  - SOA Persistent Transition Architecture 4
  - Transition Architecture 5
  - Synchronize with Mission Command Community

### Continuous Activities

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

## 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

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**Note:**

- COE Compliant
- LT2 Product Line
- Virtualization
- Cloud-enabled
- Technology-enabled
- Security
- Infrastructure Services
- System Services
- Network Services
- Support Services
- LT2 Transition System
- TaaS (Training as a Service) Enabled

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**Key Points:**

- COE Compliance
- LT2 Product Line
- Virtualization
- Cloud-enabled
- Technology-enabled
- Security
- Infrastructure Services
- System Services
- Network Services
- Support Services
- LT2 Transition System
- TaaS (Training as a Service) Enabled

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**Further Information:**

- Army Training Concept of 2020
- Army Enterprise Network Strategy
- Common Operating Environment
- Net Centric Enterprise Services
- Connecting Soldiers to Digital Apps
Standards/ICD Calendar

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<td>Army Aviation and UAS Standard</td>
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- **Start of Effort**
- **Published**
- **Industry Feedback**
- **Planned**
- **Active**
Live Training in 2012

Click on location for more information

7 December 2012
# Foreign Military Sales

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**Total:** 206,750

7 December 2012
Live Training Lines of Operation

Instrumentation Networks
Field TOC
CTC ExCon / Homestation / Live Fire Range Ops. Center

Force-On-Force
O/Cs

Force-On-Target
Targets
Urban Operations

Battlefield Effects

ExCon & Comms
ExCon, AAR, RF Comms, ABCS, & Network Data Management
PM CTIS T-IS

Simulated Fire
Combined Arms Engagement Pairing
BLUFOR & OPFOR
PM LTS A-TESS

Live Fire
Instrumented Urban Operations, & Battlefield Effects
PM DT FASIT

Standards Management (CTIA, A-TESS, FASIT) - APM TRADE
Force on Force LOE

7 December 2012
# Force on Target LOE

## Vision

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<th>Mid-Term Focus Area</th>
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### Requirement Documents

- DMPRC ORD
- NGATS ORD
- IMTS ORD

### Standards

- SOA
- Capable
- Enhanced
- Persistent
- Mature

### Contract Award

- **UOTS**
- **DRTS**
- **CPM**
- **CARTS**
- **ATS II**
- **BES II**

### Training as a Service (TaaS) Enabled

**Standards (SOA)**

- COE and Computing Environments

**CoE and Computing Environments**

- SOA Capable Enhanced Persistent Mature

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*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

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
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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Director
TRADOC Capability Manager
Live Training (TCM-Live)
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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