MISSION
To provide standards and common solutions for live training, with focus on reducing total ownership costs while improving quality, interoperability, and reusability across Live, Virtual, Constructive, and Joint training/test domains for Soldiers and the Nation.

AIM TRADE VISION
To be the vanguard provider of a common interoperable product-line through innovative and adaptable solutions for live training in support of the Soldiers and the Nation.

- LT2 LIVE TRAINING TRANSFORMATION (LT2)
- COMMON TRAINING INSTRUMENTATION ARCHITECTURE (CTIA)
- LIVE TRAINING STANDARDS
- EMBEDDED TRAINING
- LIVE TEST AND TRAINING COLLABORATION
- AWARDS
PM TRADE LT2 Product Line Architecture enables proactive development and implementation of standards and interface management initiatives that support current and future programs.

LT2 LIVE TRAINING TRANSFORMATION (LT2)

- Force-on-Force Standards
- Common Messaging Standards
- Exercise Monitoring & Control Standards
- Force-on-Target Standards

LT2 TESS
- Component Architecture
- Live Training Engagement Composition (LTEC)
- Personal Area Wire and Wireless Networks
- Weapon Interfaces/Embedment

CMF
- Common Message Format
  (Radio agnostic message structure for tactical band radios and commercial communications. Supports remote management and cloud commuting.)

CTIA
- Common SW Architecture Stds.
- Cloud/Mobile Computing SW Stds.
- GUI Stds.
- Common Data Model
  (Correlating voice, video, TESS data, and digital tactical message related events)
- AAR Mission Planning/
  AAR Preparation
  (Semi-automated data mining)

FASIT
- Common Interface & Message Structure for Battlefield Effects and Targets

APM TRADE has established and manages a set of standards, interfaces, and governances that enables systematic growth/expansion of hardware product lines, local and long haul network communications messages, and core software services and software reuse. The architecture supports remote component and IA software reprogramming, remote user/AAR help desks, consolidated configuration management, and remote site management and cloud based implementation services.
PM TRADE provides force-on-force and force-on-target capabilities with products composed of reusable and interoperable software components standardized by the Common Training Instrumentation Architecture (CTIA), the software architecture defined by the Army’s Live Training Transformation product line. For more than a decade, CTIA has enabled the LT2 product line to achieve more than $600 million in return on investment by fostering an environment that maximizes reuse as a product line architectural framework.
Live Training Standards

Migrate to an interoperable Systems of Systems approach to acquire, manage, and sustain products across PM TRADE Mission Area Domains

Communicating Across the Boundaries - One PM TRADE Portfolio

Exercise Control & Communications Networks

CTC ExCon / Range Ops Ctr / Homestation

ExCon & Comms
ExCon, AAR, RF Comms. ABCS, & Network Data Management
PM CTIS

Simulated Fire
Combined Arms Engagement Pairing
BLUFOR & OPFOR
PM LTS

Live Fire
Instrumented Urban Operations, & Battlefield Effects
PM DT

T-IS
A-TESS
FASIT

Standards Management - APM TRADE
Embedded Training

**BACKGROUND**
- Supports “Train as you fight” paradigm
- Army’s preferred solution (AR 70-1, AR 350-1, AR 350-38, TRADOC Reg 350-70)
- PEO STRI established Army Embedded Training Working Group in 2011
  - 120+ members from dismount, vehicle and training PM and TCM organizations
  - Identified collaborative opportunities
  - Drives commonality and standards

**EXAMPLE EMBEDDED LIVE TRAINING USE-CASE**

- SMALL ARMS TRANSMITTER*
- DETECTOR BELTS*
- SMART DISPLAY RUNNING LTEC (Embedded)

**VISION**
- Create an embedded training technical framework
  - Common, re-usable software
  - Component based architecture
- Improve Soldier readiness
  - Support Army Integrated Training Environment
  - More time to train – reduced install times
- Improve training accessibility
  - Train Anytime, Anywhere

**TRAINING**
- Training unique hardware replaced by software embedded on tactical systems inside vehicle

*Potential dual-use
Main focus of the effort is to develop new technologies that support common test and training capability gaps

Foster development of and compliance with a new integrated live, virtual, constructive capability document

Test community made a decision to leverage training community’s products due to commonality of requirements

PM TRADE, PM ITTS, STTC, ATEC and ATSC developed an MOA to facilitate closer cooperation between test and training communities
Awards

2015
- PEO STRI TEAM OF THE YEAR
  - CPM Next

2014
- AMSO MODELING & SIMULATION AWARD
  - Training (Squad Overmatch Study)
- INTERNATIONAL SOFTWARE PRODUCT LINE HALL OF FAME

2013
- PEO STRI TEAM OF THE YEAR
  - Project Execution (Target Modernization)
- Nomination to International Software Product Line Hall of Fame
- DEPARTMENT OF DEFENSE VALUE ENGINEERING AWARD WINNER

2012
- PEO STRI TEAM OF THE YEAR
  - Project Execution (LT2)
- AFEI EXCELLENCE IN ENTERPRISE INFORMATION
- ASA(ALT) ARMY ACQUISITION EXCELLENCE AWARD

2011
- NTSA MODELING & SIMULATION AWARD

2010
- PEO STRI TEAM OF THE YEAR
  - Contract Execution (CPM)