

# APM TRADE

ASSISTANT PROJECT MANAGER FOR TRAINING DEVICES

## ★ APM 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.

## ★ 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.

- ▶ 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)



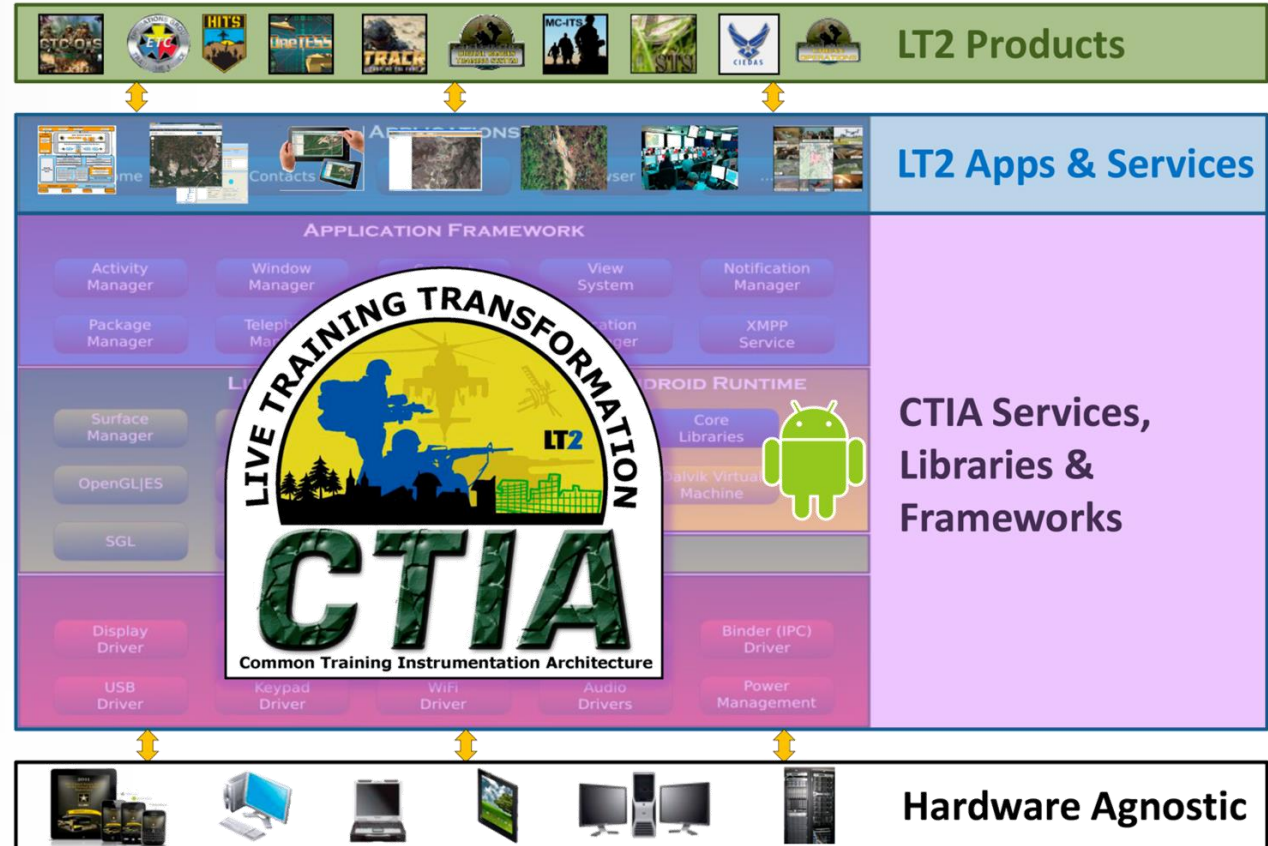
APM TRADE has established and manages a set of standards, interfaces, and governance that enables systematic growth/expansion of hardware product lines, local and long haul network communications messages, and core software services and software reuse. The architecture supports remote component and IA software reprogramming, remote user/AAR help desks, consolidated configuration management, and remote site management and cloud based implementation services.



# Common Training Instrumentation Architecture (CTIA)

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.

CTIA is core to LT2 like Android is core to smart phones

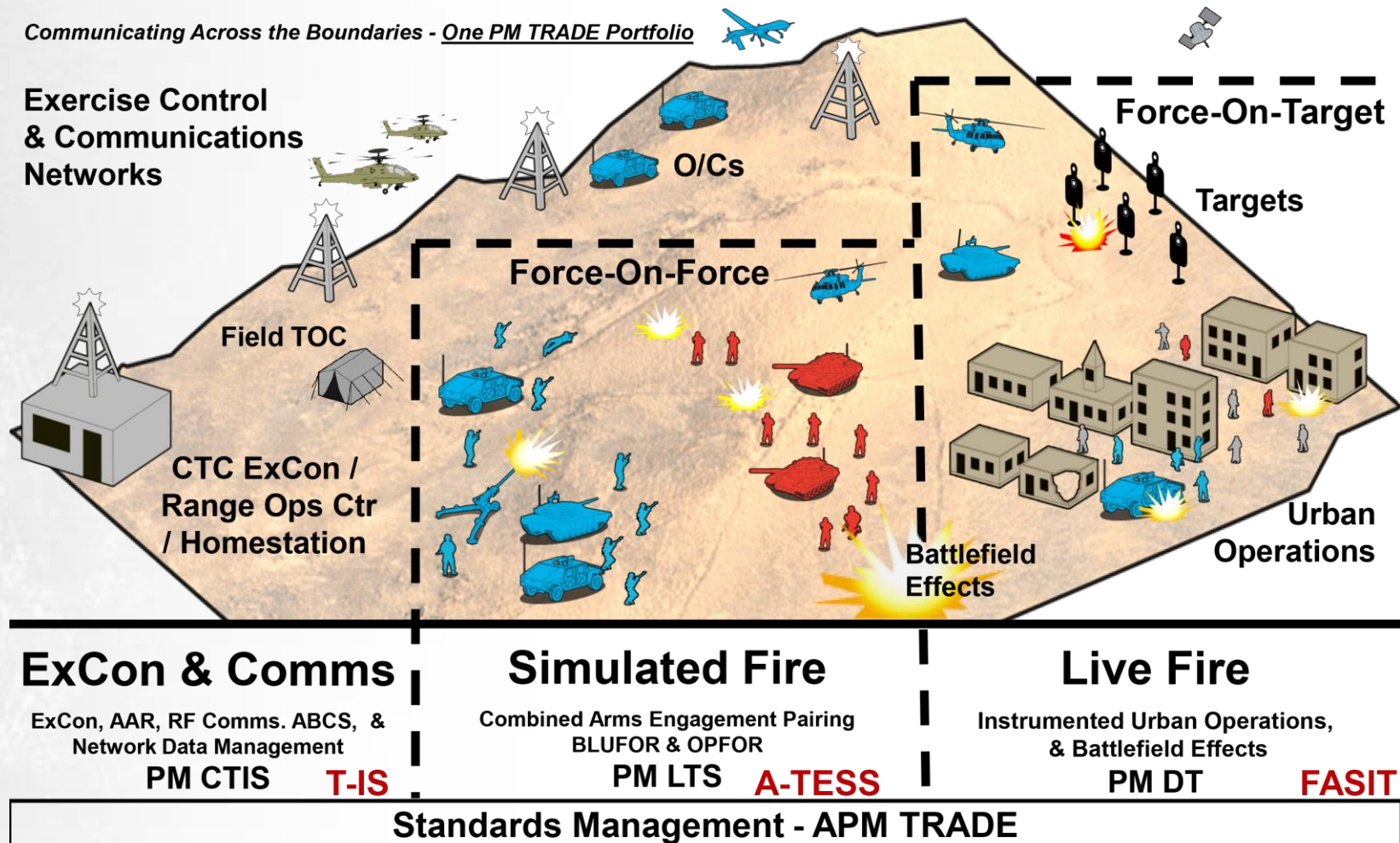


# Live Training Standards

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



# Embedded Training

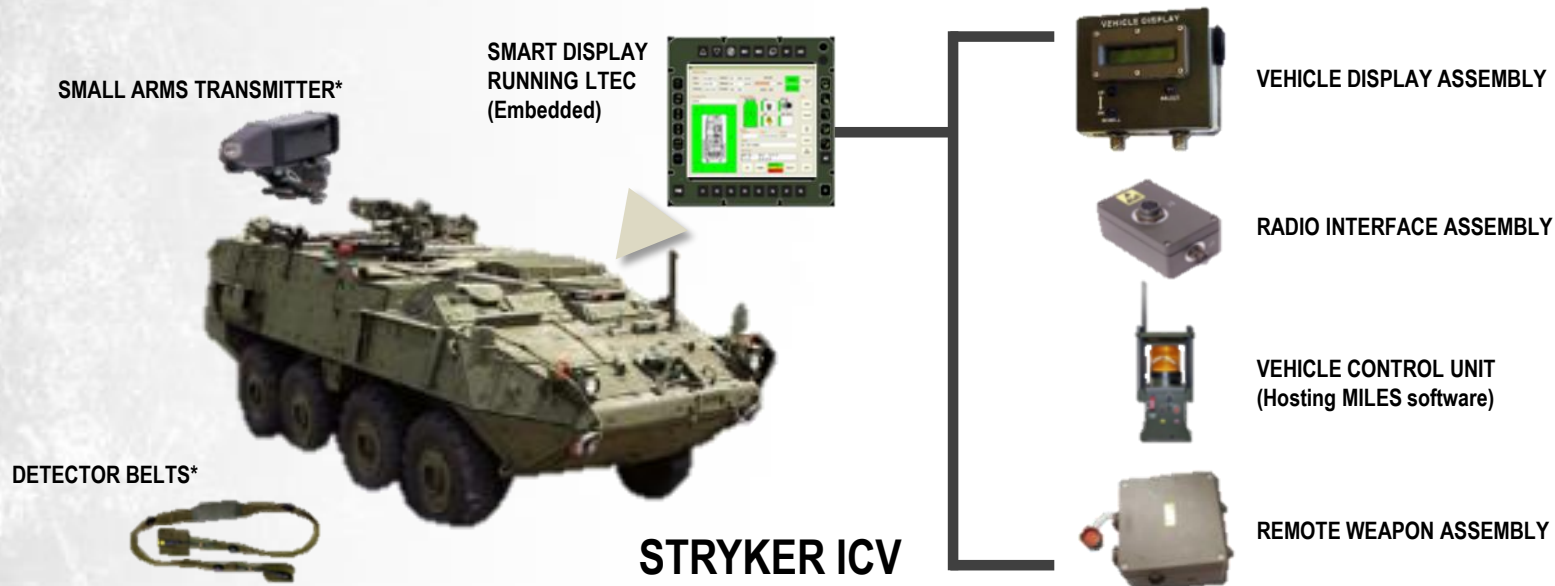
## BACKGROUND

- 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

## 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

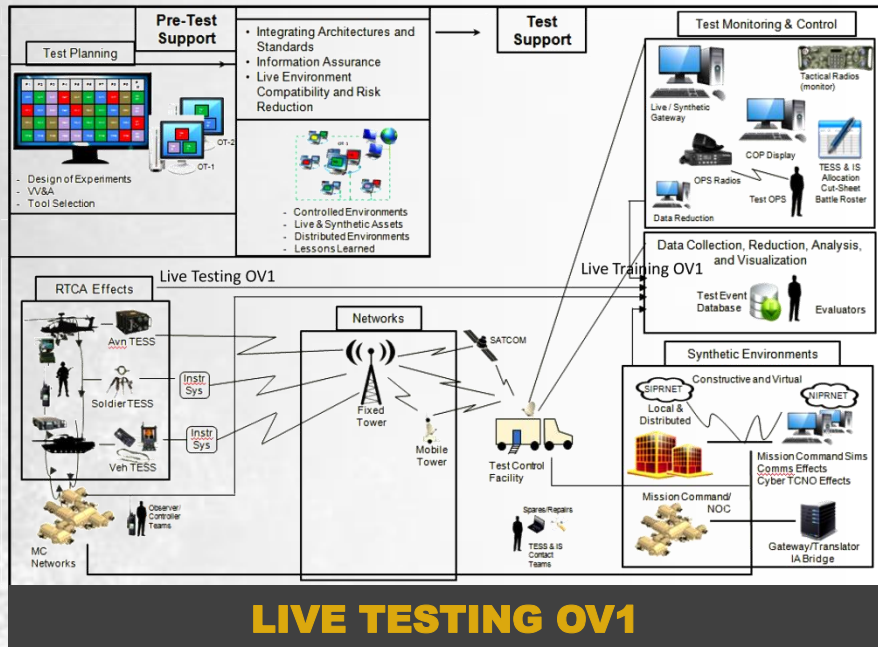
## EXAMPLE EMBEDDED LIVE TRAINING USE-CASE



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

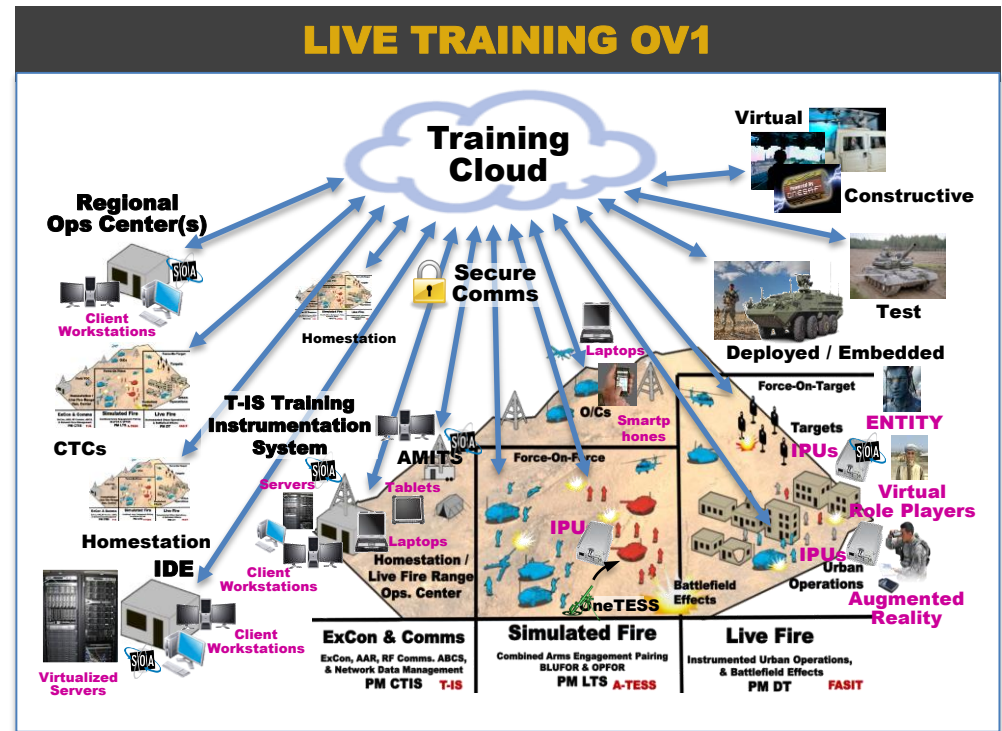


# Live Test and Training Collaboration



- 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)

