

PM TRADE TESS Evolution / Vision Slide

MILES TESS Configurations

Key Interfaces

Communications (Instrumentation Radio)

**Circa
1980-2002**

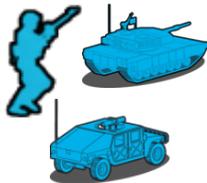


Vendor Specific
Closed Systems

MILES Code Standard

Non Instrumented
Initially then Custom
Radio Interfaces

**2002 -
2012**



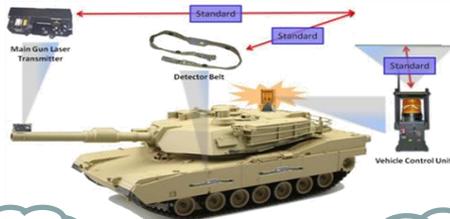
Vendor Specific
Closed Systems With
Custom Radio Interfaces

- ✓ MILES Code upgrades
- ✓ TESS Radio Interface
- ✓ PAN in Development

- ✓ Radio TESS Interface Standards – Compilation
- ✓ LT2 Gateway

Component Based Acquisitions
Open Published Interfaces and Perf. Stds.

**Near Term
Vision
(2013-2020)**



TESS SW

Software Based
TESS systems

BDA SW

- ✓ Supported Standards
 - RS-232
 - 802.15.4 (PAN)
 - USB
- ✓ Common Message Format
- ✓ Connections & Interfaces
- ✓ Power Interface
- ✓ LTEC SW (TESS/BDA)

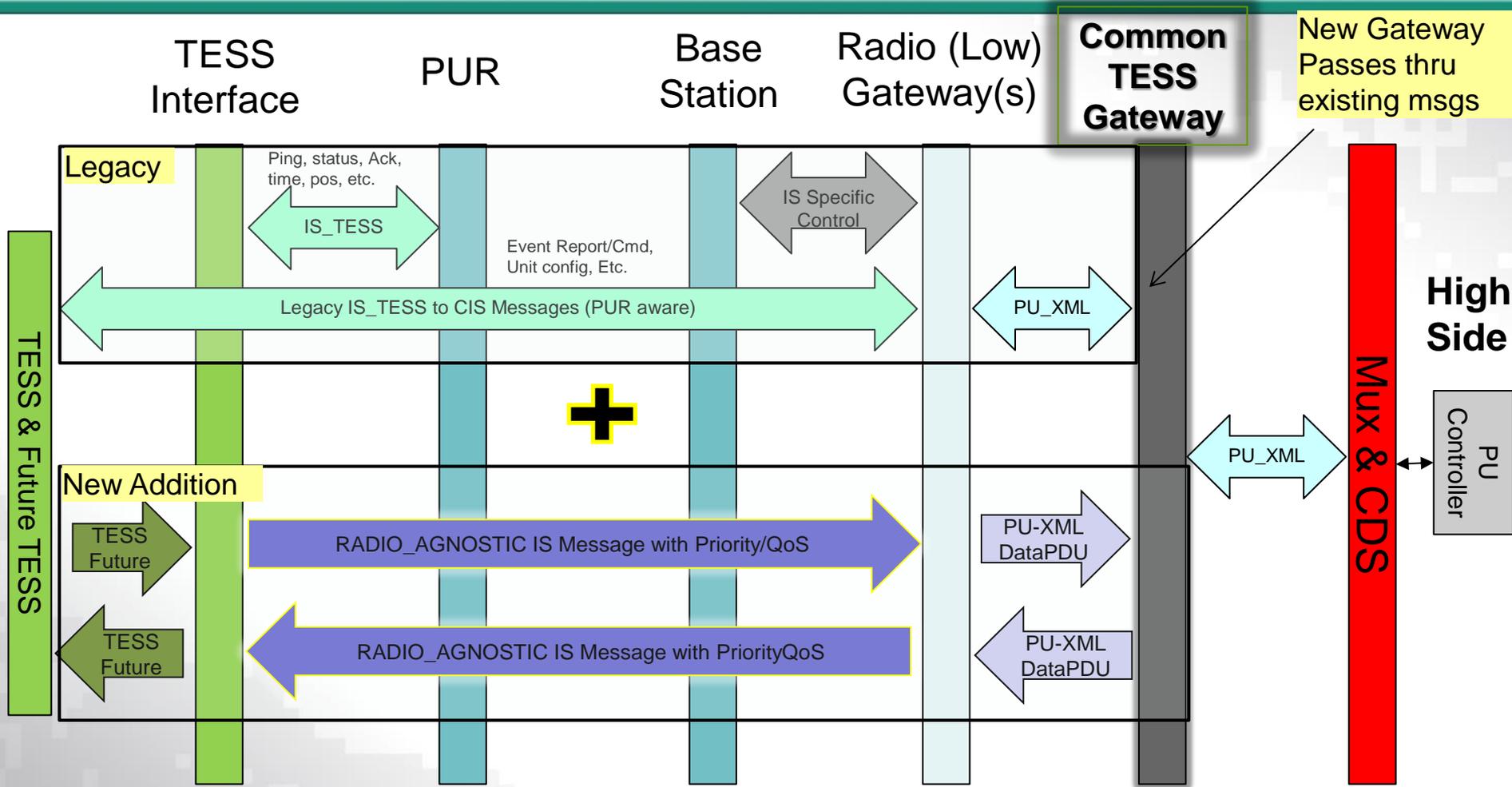
- ✓ Published Interfaces
- ✓ Common Message Set
- ✓ LTEC TESS Logic & RTCA/BDA SW
- ✓ Remote CM Services from IDE.
- ✓ *Tactical Radios/Systems Supporting some Training capabilities*

**Long
Term
Vision**

Training functionality Embedded as part of tactical weapon/radios. -- Individual Soldier and Weapon System computer/displays/optics...

Developing & Managing Training Software Applications and Weapon/Radio/Soldier Computer Interfaces/firewalls to Push and Pull data driving Stimulations (*effects, graphics, audio, simulated C4ISR communications, real time coaching...*)

Radio Agnostic Concept



Add Generic Radio Agnostic message to existing IS TESS standard.

PM TRADE CM Process – Standards

