



Project Manager Soldier Survivability

**PRECISION
Is the Standard**

Every Ounce Matters, Every Bullet Counts

Product Manager Soldier Clothing and Individual Equipment (PdM SCIE)

Parachutist Industry Association (PIA) Government Systems Committee Update

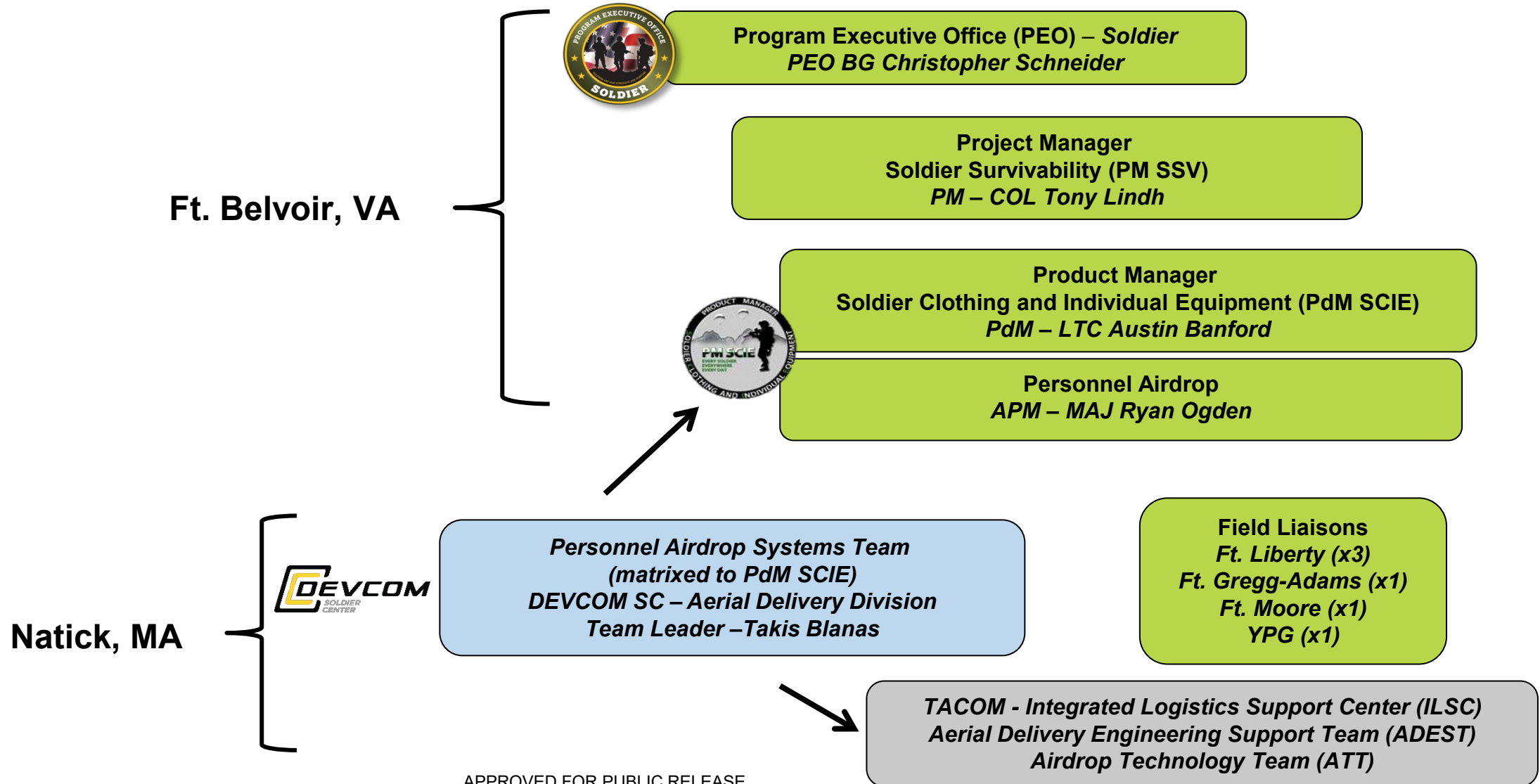
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Personnel Airdrop Organization

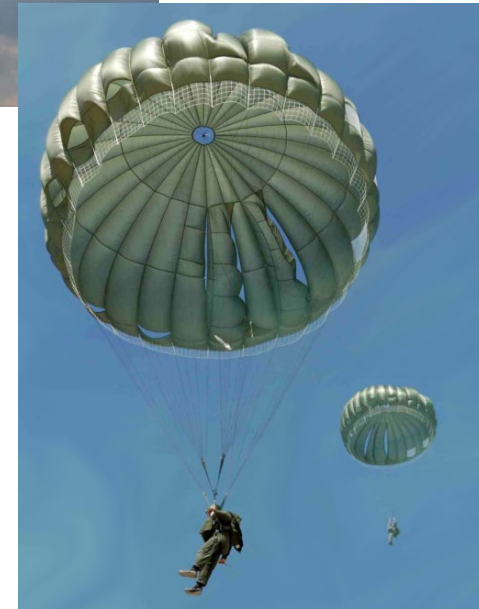




Advanced Tactical Parachute System (ATPS)



- **T-11: Static Line, Non-Maneuverable Troop Parachute**
 - Low rate of descent (18 fps)
 - Capable of supporting 400 lbs. Total Jumper Weight
 - Low oscillation
 - Service life extended to 14 years except for 507th due to high use frequency
- **MC-6: Static Line, Maneuverable Troop Parachute**
 - Low rate of descent (18 fps)
 - Capable of supporting 400 lbs. Total Jumper Weight
 - Excellent canopy control and maneuverability
 - Service life extended to 14 years
- Life Cycle Replacement (LCR) fielding under way for both T-11 and MC-6 systems going out of service life
- T-11: PdM SCIE multi-year contract awarded July 2019
 - Contract allows for on-ramping other vendors. Next opportunity 24 July 2025 – 23 July 2026
- MC-6: PdM SCIE multi-year contract awarded June 2020
 - Contract allows for continuous on-ramping when a new vendor is OPL qualified



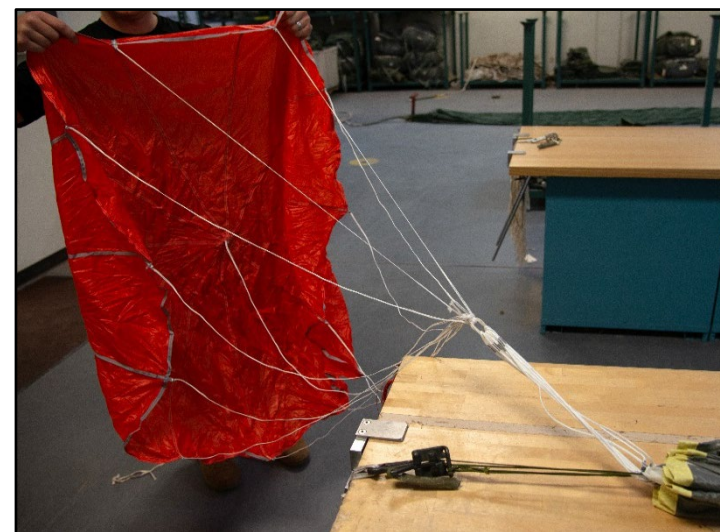


T-11R Single Pin (T-11R-SP)

- Modification consists of new pack tray assembly, ripcord assembly, and extractor assembly
 - Pack tray and ripcord mitigate risk of inadvertent activation due to high-speed windblast
 - Extractor modification addresses premature extractor release for 400 lb total rigged weight - no main malfunction
 - Pack tray incorporates features to accommodate future Static Line Automatic Activation Device (SLAAD)
- Initial quantities for field replacement procured
- Implementation began March 2022
- Possible future buys based on sustainment requirements
- T-11R SP has been incorporated into the T-11 and MC-6 system Technical Data Packages (TDPs)



T-11R New Pack Tray



Modified Extractor Parachute



Parachutist Emergency Release System (PERS)



- Allows for the safe release of a static line jumper in the event that they become towed
- Incorporate a towed jumper detection system
- Materiel Development Decision (MDD) received in August 2021 - approval for initiation of formal program of record (PoR)
- Request for Information (RFI) to Industry released August 2022
 - One system identified that releases the towed jumper and deploys a recovery parachute bringing the jumper to ground
- Second Request for Information (RFI) to Industry 4QFY23
- Projected Timeline
 - Developmental/Operational Testing: FY24-FY25
 - First Unit Equipped (FUE): FY25



PERS



Towed Jumper

PERS Deployed



Static Line Automatic Activation Device (SLAAD)



- Capability gap to automatically deploy Static Line Reserve in case of jumper incapacitation or loss of altitude awareness
- The SLAAD will initiate reserve parachute activation if necessary to prevent injury and/or death during static line parachute operations
- Government effort to develop Software & Hardware on-going
- Provisions in new T-11R-SP pack tray design for a SLAAD without interference
- Concept of Operation
 - **Fire Scenario:** Jumper **Out** of the Aircraft with main parachute malfunction
 - **No-Fire scenarios:** **Towed** Jumper and **In-Aircraft** Jumper
- RFI to Industry 2QFY24
- Follow on solicitation for proposals in FY24





RA-1 Advanced Ram Air Parachute System (ARAPS)



- High performance ram air parachute system used to infiltrate small teams into denied areas using High Altitude Low Opening (HALO) and stand-off techniques
- Enhanced canopy performance allows for increased stand-off, thus decreasing aircraft vulnerability
- Enables parachutist to safely carry increased combat load and operate at higher altitudes (450 lbs AUW at 25,000 MSL)
- Lift to Drag Ratio 4:1
- Three methods of deployment:
 - Bottom of the Container (BOC)
 - Over the Shoulder (OTS)
 - Double Bag Static Line (DBSL)
- Next rebuy for LCR systems to initiate in FY25
- RFI to industry in FY24 and Request For Proposal in FY25





Military Altimeter (MA-1)



- Need exists for an updated, ruggedized MFF altimeter with improved accuracy, data logging and ease of use
- Requirement for Military Altimeter (MA-1) approved January 2021
- Earlier evaluation show that several commercially available altimeters exist meeting User requirements:
 - Assessment for Form, Fit and Function
 - Wind Tunnel testing
 - Altitude Chamber testing
 - Electromagnetic (MIL STD 461) testing
 - Environmental (MIL STD-810) testing
 - User Assessments – Live Jumps
- Material Development Decision (MDD) projected for 1QFY24



Parachutist Oxygen Delivery System (PODS)

- Parachutist's requirements for oxygen increased for extended High Altitude and stand-off missions
- Enhanced capacity oxygen delivery system is required to support High Altitude and stand-off extended duration missions
- Requirement for PODS approved October 2020
- PODS will consist of five (5) components
 - Individual Oxygen Source
 - Transfer Pump
 - Pre-Breather
 - Parachutist Oxygen Mask
 - System Test Device
- Material Development Decision (MDD) projected for 2QFY24
- Request for Information to Industry 1QFY24





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