PEO Soldier Mission

Develop, acquire, field, and sustain affordable, integrated, state-of-the-art equipment to improve Soldier dominance in Army operations today and in the future.

We Are Here to Make a Difference
To America’s Most Deployed Combat System
PEO Soldier Major Activities

As of: 11 August 2015

PM Soldier Weapons
Individual Weapons
- Air Warrior
- Ground Soldier
Crew-Served Weapons
Soldier Systems & Integration
- Mobile Handheld Computing Environment

PM Soldier Warrior
Soldier Protective Equipment

PM Soldier Protection & Individual Equip
Soldier Protective Equipment

PM Soldier Sensors & Lasers
Soldier Maneuver Sensors
Soldier Precision Targeting Devices

PM Soldier Weapons
Crew-Served Weapons

PM Rapid Equipping Force
- C-UAS
- Soter
- Denied GPS SA & Comms
- Squad ISR
- Cube
- COP/FOB Force Protection
Project Manager Soldier Weapons

M4/M4A1 Carbine

XM17 Modular Hand Gun

XM25 Counter Defilade Target Engagement (CDTE) Weapon System
Project Manager Soldier Warrior

Air Warrior

NETT Warrior

Systems Integration
Project Manager Soldier Protection and Individual Equipment

Soldier Protection System (SPS)

Army Combat Uniform (ACU) & Ancillary items

T-11 Advanced Tactical Parachute System (ATAPS)
Project Manager Soldier
Sensors and Lasers

Family of Weapons Sights-Sniper (FWS-S)

Family of Weapons Sights-Crew Served (FWS-CS)

Joint Effects Targeting System (JETS)
Back Ups
Project Manager Soldier Weapons

Mission:
Develop, acquire, field and sustain dominant Soldier weapon systems for the Army through effective and efficient management throughout the acquisition life cycle.

Be immediately responsive to the Soldiers’ wartime requirements

Army and Other Services and Agencies

As of 20 Feb 15
“Provide premier Soldier weapons systems enabling battlefield dominance”
PdM CSW Portfolio

Operations & Support

- M24 Mini Binocular
- M2010 Enhanced Sniper Rifle (ESR)
- M22 Binocular
- M145 Machine Gun Optic
- M107 Long Range Sniper Rifle
- M249 Squad Automatic Weapon (SAW) 5.56mm
- M240H Medium Machine Gun
- M240B Medium Machine Gun 7.62mm
- M2 .50 Caliber Machine Gun
- MK19 Grenade Machine Gun 40mm
- M2A1 .50 Caliber Machine Gun
- M192 Lightweight Tripod
- M153 Common Remotely Operated Weapon Station (CROWS)

Production & Deployment

- M25A1 Stabilized Binocular
- M110 Semi-Automatic Sniper System (SASS)
- XM1112 40mm Airburst NLM (ANLM)
- M240L Medium Machine Gun 7.62mm
- M3 Carl Gustaf (MAAWS)
- M205 Lightweight Tripod
- XM1116 12 Gauge Extended Range NL Cartridge
- Mounted Machine Gun Optic (MMO)

Development

- Compact Semi-Automatic Sniper System (CSASS)
- CROWS Low Profile

Future

- Common Caliber Crew Served Weapon
- Lightweight Machine Gun – Medium
- Externally Powered Weapon
- Lightweight Machine Gun – Heavy
- Precision Sniper Rifle
- Small Arms Fire Control
- Crew Weapons
- Precision Weapons

“As of: 27 July 15

“Provide premier Soldier weapons systems enabling battlefield dominance”
**Mission:**

To develop and field Air and Ground Soldier systems that integrate the Soldier with the network and platforms to be sustainable and survivable.
Product Manager
Air Warrior

Air Warrior

- Survival Gear Carrier
- Portable Helicopter O₂ Delivery System
- Overwater Survival Gear Flotation Collar One Man Raft
- HGU-56/P Helmet w/ Maxillofacial Shield
- Microclimate Cooling System
- Dual Electronic Data Manager
- Communication Enhancement/Protection System
- Survival Kit Ready Access Modular
- Encrypted Aircraft Wireless Intercom System

Air Soldier System

- Soldier Computer Module
- A/C Mounted Mission Display Module
- Common Helmet Mounted Display w/Degraded Visual Environment (DVE) 3D Symbology
- Head Tracking/Other Pilot Line of Sight
- Improved Cooling Vest
- Lightweight Flexible Body Armor and 72 Hour Survival Items
- Layered Clothing Ensemble
- Pre-Planned Product Improvements: Electronic Flight Bag
Product Manager
Ground Soldier System

Nett Warrior

Leader Worn Baseline

Example Apps
- Sensitive Site
  Exploitation
  (Intelligence Tool)
- Machine Foreign
  Language Translation
- Fires Warrior
  Mobile Handheld Fires
  (PM Mission Command)
- Collaborative
  Planning
  Mission Assistance
- Aircraft Manifest
  82nd ABN
- ParaNav
  Parachute Navigation
- WhoDat
  Virtual lineup/BOLO
- TIGR (Intel)
  Events, Reports,
  Collections

End User Device (and Case)
Wiped and loaded with Army software

Support Equipment

- Vehicle Integration Kits
- Mission Planning Computer

Power Support Equipment

- Modular Universal Battery Charger
- Squad Power Manager
- Solar Chargers and 1 KW Generator

AN/PRC-154A
Conformal Battery
Cables and Logistics from Tobyhanna Army Depot
## Product Director
### Soldier Systems & Integration

<table>
<thead>
<tr>
<th>Soldier Power</th>
<th>TCAPS</th>
<th>Systems Integration</th>
<th>SEP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Soldier Worn Power</strong></td>
<td><strong>Tactical Communications and Protection System</strong></td>
<td><strong>Integration Working Groups</strong></td>
<td><strong>Soldier Enhancement Program</strong></td>
</tr>
<tr>
<td>Conformal Battery</td>
<td>Invisio TEA X50</td>
<td>Facilitate cross-product integration among multiple Programs of Record</td>
<td>Daytron Scout UAS</td>
</tr>
<tr>
<td>Integrated Soldier Power/Data System (Core) ISPDS-C</td>
<td>TCAPS-Lite</td>
<td><strong>Warrior Integration Site (WinSite)</strong></td>
<td>ARES AMG-2 Light Automatic Machine Gun</td>
</tr>
<tr>
<td>Solar/Kinetic Energy Harvesting</td>
<td>3M COMTAC III NeckBand</td>
<td>Manages the Soldier System baselines and informs the product development process</td>
<td><strong>Scan prototypes</strong></td>
</tr>
<tr>
<td><strong>Squad Power Generation &amp; Charging</strong></td>
<td>3M Tactical Earplug (TEP)</td>
<td><strong>Virtual communication tools</strong></td>
<td>Clip-On Thermal Imager (COTI)</td>
</tr>
<tr>
<td>Squad Power Manager w/Solar Blanket</td>
<td>Silynx CLARUS Se</td>
<td><strong>Load Bearing Mannequins</strong></td>
<td>40MM Extended Range Low Velocity munition</td>
</tr>
<tr>
<td>Universal Battery Charger</td>
<td>TEA X50L</td>
<td><strong>Load Effects Assessment Program - Army (LEAP- A)</strong></td>
<td><strong>Buy-Try-Decide</strong></td>
</tr>
<tr>
<td><strong>Assesses baseline performance and validates cross-product integration (form, fit, bulk, mobility and flexibility)</strong></td>
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</table>

Scan prototypes
Create 3D models,
Print 3D prototypes,
Space claim analysis
Virtual communication tools
Load Bearing Mannequins
PM SPIE Mission:
Develop and provide superior and sustainable integrated clothing and equipment in a rapidly changing global environment as well as provide Soldiers with the state-of-the-art protection to defeat and reduce threats associated with ballistics, blast overpressure, fragmentation, and heat.
Product Manager Soldier Protective Equipment

Engineering and Manufacturing Development/Low Rate Initial Production

Vital Torso Protection (VTP)
- Ballistic Plates with Smart Sensor (Lighter weight ESAPI/ESBI and XSAPI/XSBI)

Torso and Extremity Protection System (TEP)
- Modular Soft Armor Vest Concealable to full IOTV Coverage
- Deltoid Protection
- Army Combat Shirt w/ built in Elbow Pads
- Pelvic Protection System (PUG/POG)
- Army Combat Pants w/ built in Knee Pads

Integrated Head Protection System (IHPS)
- Modular Ballistic Applique
- Maxillofacial Protection System
- Transition Combat Eye Protection (TCEP)

Integrated Soldier Sensor System (ISSS)
- Helmet Sensor
- Blast Gauge
- Physiological Status Monitor

Other Program of Record Production and Programs for Deploying Soldiers

Soldier Plate Carrier System (SPCS) with POG
- Family of Concealable Body Armor (FoCBA)
- Ultra-Low Vis Concealable Body Armor
- Enhanced Combat Helmet (ECH)
- Pelvic Protection
- Female IOTV

Future Development

Blast Gauge
- GEN II Helmet Sensor
- Military Combat Eye Protection (MCEP)
- Next Generation Advanced Bomb Suit (NGABS)
Product Manager Soldier
Protective Equipment

Support to Legacy Systems

Advanced Combat Helmet (ACH) / Lightweight Advanced Combat Helmet (LW ACH)

Armor Inspection System Non Destructive Test Equipment (AIS NDTE)

Enhanced Small Arms Protective Insert (ESAPI)

X-Threat Small Arms Protective Insert (XSAPI)

Enhanced Side Ballistic Insert (ESBI)

X-Threat Side Ballistic Insert (XSBI)

Improved Outer Tactical Vest (IOTV) (GEN III/Gen IV)

Combat Vehicle Crewman Helmet/Enhanced Combat Vehicle Crewman Helmet (CVCH/A-CVCH)

Advanced Bomb Suit (ABS)

Nape/Neck Protector
# Product Manager Soldier Clothing & Individual Equipment

## Program of Record Development/Initial Production & Fielding

<table>
<thead>
<tr>
<th>Tactical and Environmental Clothing</th>
<th>Hand and Footwear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Resistant Environmental Ensemble</td>
<td>OCP Flame Resistant ACU</td>
</tr>
<tr>
<td>Army Combat Shirt</td>
<td>Army Combat Pant</td>
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<tr>
<td>Army Garrison Food Service Uniform</td>
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</tbody>
</table>

## Procurement for Rapid Fielding Initiative

<table>
<thead>
<tr>
<th>Individual and Unit Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-purpose Personal Hydration System</td>
</tr>
<tr>
<td>Individual Water Treatment Device</td>
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<tr>
<td>Army Mountaineering Kit</td>
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</tbody>
</table>

## Sustainment

<table>
<thead>
<tr>
<th>JPACE</th>
<th>JSLIST</th>
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<tr>
<td>Army Combat Shirt</td>
<td>Army Combat Pant</td>
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<tr>
<td>OCP Flame Resistant ACU</td>
<td></td>
</tr>
<tr>
<td>Army Aircrew Combat Uniform (ACU)</td>
<td></td>
</tr>
<tr>
<td>Fuel Handlers Coverall</td>
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<tr>
<td>Army Combat Gloves</td>
<td></td>
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<tr>
<td>Hot Weather Mountain Combat Boot</td>
<td></td>
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<tr>
<td>Temperate Weather Mountain Combat Boot</td>
<td></td>
</tr>
<tr>
<td>HW &amp; Temp Army Combat Boot</td>
<td></td>
</tr>
<tr>
<td>Extreme Cold Weather Boot</td>
<td></td>
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<tr>
<td>Modular Sleeping Bag Systems</td>
<td></td>
</tr>
</tbody>
</table>
Program of Record Development/Initial Production & Fielding

Future Development

Airdrop
- Enhanced Electronic Automatic Activation System
- Oxygen Consoles and Bottles
- Military Altimeters
- Static Line EAAD
- Transponders
- Parachutists Environmental Kit

Other Systems
- Environmental Protection Ensemble
- Integrated Load Carriage System
- Jungle unique uniforms/OCIE

Sustainment

Program Executive Office Soldier

Product Manager Soldier Clothing & Individual Equipment

Personal Clothing/Army Uniform Board

Electronic Automatic Activation Device
Parachutist Oxygen Mask
T-11 Advanced Tactical Parachute System (ATAPS)
MC-6 Steerable ATPS
Advanced Emergency Bailout Parachute

ParaNavSys

RA-1 Advanced Ram Parachute System

Army Physical Fitness Uniform (APFU)
Army Combat Uniform (ACU) & Ancillary items
ACU-Female (ACU-F)
Army Service Uniform
Project Manager
Soldier Sensors and Lasers

PM SSL Mission:
Equip the Soldier with sensors, lasers, and precision targeting devices to dominate the battlefield through improved lethality, mobility, situational awareness, and survivability in all operational environments.

Beyond Own the Night ... See and Win the Fight!
Product Manager
Soldier Maneuver Sensors

**ENVG & FWS-I**
- **AN/PSQ-20 Enhanced Night Vision Goggle** (ENVG II)
- **Family of Weapons Sights-Individual** (FWS-I)
- ENVG III
- **FWS-Individual**

**FWS-CS & S**
- **Family of Weapons Sights-Crew Served** (FWS-CS)
- **Family of Weapons Sights-Sniper** (FWS-S)
- **FWS-Crew Served**

**Legacy Systems**
- **AN/PVS-14 Monocular Night Vision Goggle** (MNVD)
- **AN/AVS-6(V)3 Aviator’s Night Vision Imaging System** (ANVIS)
- **AN/PAS-13(V) Thermal Weapon Sight** (TWS)
- **AN/PVS-30 Clip On Sniper Night Sight** (CoSNS)
- **AN/PEQ-15 & 15A Multi-Function Aiming Lights** (MFAL)
- **AN/PEQ-14 Integrated Laser/White Light Pointer** (ILWLP)
- **LA-8/P Aircrew Laser Pointer** (ALP)
- **Green Laser Interdiction System** (GLIS)
Product Manager Soldier Precision Targeting Devices

**Fires**

- **AN/PED-1**
  Lightweight Laser Designator Rangefinder (LLDR)
  - BAE
  - DRS
  - Joint Effects Targeting System (JETS)

- **LLDR 1**
- **LLDR 2**
- **LLDR 2H**

**Maneuver**

- **Laser Target Location System (LTLS)**
- **Laser Targeting Location Module (LTLM)**

- **AN/PSQ-23 Small Tactical Optical Rifle Mounted (STORM)**
  micro-Laser Range Finder (mLRF)
- **AN/PSQ-23 Small Tactical Optical Rifle Mounted (STORM)** smaller, lighter extended performance (SLX)
- **Pre-Shot Threat Detection (PTD)**
U.S. Army
Rapid Equipping Force
This brief is UNCLASSIFIED.
Mission: The Rapid Equipping Force (REF) harnesses current and emerging technologies to provide immediate solutions to the urgent challenges of U.S. Army forces deployed globally.

**Equip** operational forces with solutions in order to reduce operational capability shortfalls, increase Soldier safety and reduce risk.

**Insert** future force technologies, threshold capabilities and/or surrogates into operational forces to speed development and validate concepts in an operational environment.

**Assess** the full range of desired capabilities and Army business practices to refine, modify and streamline actions and provide Army senior leaders with recommendations.

**Containerized Weapons System (CWS)**
- **Requirement:** 10 Liner
- **Capability:** Allows Soldiers to operate and engage in fire from a protected position. The CWS observes, detects, and engages targets with increased accuracy and reduced collateral damage and is used for integrated base defense and force protection.
- **Equipped:** AUG 2011 – Ongoing

**Altus**
- **Requirement:** Director’s Initiative
- **Capability:** Tactical aerostat platforms designed for small squad employment
- **Equipped:** July 2010 – Ongoing
  - Insert effort that evolved into an equip and, ultimately, a harvest effort.

**Soldier Load Assessment**
- **Activity dates:** 2008
- **Assessment:** REF supported the multi-agency Soldier load study, which evaluated weapons, ammo, armor, protection items and other kit to provide recommendations concerning Soldier Load.
- **Partners:** AWG, PEO-Soldier, ATEC, MCoE, ARCIC
  - Quickly tested and conducted operational assessments to evaluate several products for potential fielding.
Unique Authorities

**Requirement Validation**
- REF Director is a HQDA selected Colonel authorized to approve requirements
- HQDA retains the authority to direct REF initiatives based on perceived Army problem sets

**Flexible Funding**
- REF has access to a mixture of OMA, OPA, and RDTE funds that allow the REF the agility to meet its missions without diverting funds from other programs

**Acquisition Authority**
- ASA(ALT) designated PEO-Soldier as REF's Milestone Decision Authority (MDA) (May 28, 2014)
- Program Manager, REF is a fully chartered PM office, reporting directly to PEO- Soldier and provides direct acquisition support to the REF
- Limited acquisition; not an ACAT program

REF is rapid because it combines requirement validation and acquisition authority and flexible funding under one roof.
**REF ORG CHART**

**REF**
- MIL: 29/29
- DAC: 21/13

**PM**
- MIL: 4/4
- DAC: 1/1

**Special Staff**
- XO
- PAO
- Scientist

**REF Director**

**SGM**

**Milestone Decision Authority**
- Acquisition Cell
- Acquisition Analytics
- Management Cell

**Solution Cell**

**Deputy Director Solutions Chief**

**Research and Analytics**
- Intelligence

**Requirements**

**Solution Team 1**
- Requirement Development
- Expeditionary Teams
- Solution Development

**Solution Team 2**

**Outreach and Assessments**

**Operations**
- Current Ops
- Training & Readiness
- LNOs

**Logistics**
- Facilities
- Transportation
- Warehouse

**Strategic Plans & Engagements**

**Business Management & Administration**
- Human Resources
- Information Technology
- Business Management

**Research and Analytics**

**Requirements**

**Solution Team 1**
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**Operations**
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- LNOs

**Logistics**
- Facilities
- Transportation
- Warehouse

**Strategic Plans & Engagements**

* Required /Authorized

**= REF personnel led by REF PM

**Forward Support**
- BAF: Forward Team
- BAF: Expeditionary Lab
- Kuwait: USARCENT LNO
- Iraq (RFS Pending): CFLCC-I LNO
Over 12 Years of Results

REF Projects Retained by the Army

FY06: RAID
FY07: ACOG, M4 Suppressors, MAXI Candle
FY08: FIDO XT, Boomerang, SPARKs, Specialized Search Dogs
FY09: Tactical Ground Reporting (TIGR) System
FY10: ZBOLT
FY13: Light Tactical All Terrain Vehicle (LTATV)
FY14: Systems Under Review: LMAMS, Minotaur
Video’s
XM25

VIDEO:
MX25 Slow Motion lip
TIME: 1:06
Nett Warrior