The Soldier
Our Strength and Purpose

PEO Soldier International Overview Briefing

9 September 2015
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Program Executive Officer Soldier
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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
Soldier Equipment Evolution

VIDEO: Soldier Equipment Evolution
TIME: 3:02
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

Systems Integration

NETT Warrior
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)
Our Strength and Purpose

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PEO Soldier Website
peosoldier.army.mil

PEO Soldier Blog
peosoldier.armylive.dodlive.mil
Back Ups
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
- M22 Binocular
- M145 Machine Gun Optic
- M2010 Enhanced Sniper Rifle (ESR)
- M107 Long Range Sniper Rifle
- M249 Squad Automatic Weapon (SAW)
- M240H Medium Machine Gun
- M240B Medium Machine Gun 7.62mm
- M2 .50 Caliber Machine Gun
- M2A1 .50 Caliber Machine Gun

Production & Deployment

- M25A1 Stabilized Binocular
- M110 Semi-Automatic Sniper System (SASS)
- M240L Medium Machine Gun 7.62mm
- M3 Carl Gustaf (MAAWS)
- M205 Lightweight Tripod
- MK19 Grenade Machine Gun 40mm
- M192 Lightweight Tripod
- M153 Common Remotely Operated Weapon Station (CROWS)

Development

- Compact Semi-Automatic Sniper System (CSASS)
- CROWS Low Profile
- M151...

Future

- Ammunition and Configuration Study Feeds Common Caliber Crew Served Weapon and Lightweight Medium Machine Gun
- 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
- Pre-Planned Product Improvements: Electronic Flight Bag

**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
Product Manager
Ground Soldier System

Nett Warrior

Leader Worn Baseline

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

- AN/PRC-154A
- Conformal Battery

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

Support Equipment

- Vehicle Integration Kits
- Mission Planning Computer
- Modular Universal Battery Charger
- Squad Power Manager
- Solar Chargers and 1 KW Generator

Cables and Logistics from Tobyhanna Army Depot
## Soldier Power

**Soldier Worn Power**
- Conformal Battery
- Integrated Soldier Power/Data System (Core) ISPDS-C
- Solar/Kinetic Energy Harvesting

**Squad Power Generation & Charging**
- Squad Power Manager w/Solar Blanket
- Universal Battery Charger

## TCAPS

**Tactical Communications and Protection System**
- Invisio TEA X50
- 3M COMTAC III NeckBand
- 3M Tactical Earplug (TEP)
- TEA X50L
- Silynx CLARUS Se

## Systems Integration

**Integration Working Groups**
Facilitate cross-product integration among multiple Programs of Record

**Warrior Integration Site (WinSite)**
Manages the Soldier System baselines and informs the product development process

**Load Effects Assessment Program - Army (LEAP-A)**
Assesses baseline performance and validates cross-product integration (form, fit, bulk, mobility and flexibility)

## SEP

**Soldier Enhancement Program**
- Daytron Scout UAS
- ARES AMG-2 Light Automatic Machine Gun
- Clip-On Thermal Imager (COTI)
- 40MM Extended Range Low Velocity munition
Project Manager Soldier Protection and Individual Equipment

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

Soldier Protection System (SPS)

Other Program of Record Production and Programs for Deploying Soldiers

Ultra-Low Vis Concealable Body Armor

Family of Concealable Body Armor (FoCBA)

Female IOTV

Soldier Plate Carrier System (SPCS) with POG

Blast Gauge

GEN II Helmet Sensor

Military Combat Eye Protection (MCEP)

Future Development

Next Generation Advanced Bomb Suit (NGABS)

Pelvic Protection

Enhanced Combat Helmet (ECH)
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)

Nape/Neck Protector

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)
# 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>
<th>Individual and Unit Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Resistant Environmental Ensemble</td>
<td>Army Combat Shirt</td>
<td>Multi-purpose Personal Hydration System</td>
</tr>
<tr>
<td>Army Garrison Food Service Uniform</td>
<td>Army Combat Pant</td>
<td>Individual Water Treatment Device</td>
</tr>
<tr>
<td>Army Combat Shirt</td>
<td>OCP Flame Resistant ACU</td>
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</tbody>
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## Procurement for Rapid Fielding Initiative

<table>
<thead>
<tr>
<th>Improved Combat Vehicle Crewman (iCVC) Ensemble</th>
<th>OCP Flame Resistant ACU</th>
<th>Hot Weather Mountain Combat Boot</th>
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</thead>
<tbody>
<tr>
<td>Modular Ghillie Suit &amp; Ghillie Suit Accessory Kit (GSAK)</td>
<td>Army Combat Uniform</td>
<td>Temperate Weather Mountain Combat Boot</td>
</tr>
<tr>
<td>Extended Cold Weather Clothing System</td>
<td>Army Combat Pant</td>
<td>Army Combat Gloves</td>
</tr>
<tr>
<td>Army Aircrew Combat Uniform (A2CU)</td>
<td>Fuel Handlers Coverall</td>
<td>Individual First Aid Kit II (IFAK II)</td>
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## Sustainment

<table>
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<tr>
<th>JPACE</th>
<th>JS LisT</th>
<th>HW &amp; Temp Army Combat Boot</th>
<th>Extreme Cold Weather Boot</th>
<th>Modular Sleeping Bag Systems</th>
</tr>
</thead>
</table>
**Product Manager Soldier Clothing & Individual Equipment**

**Program of Record Development/Initial Production & Fielding**

- RA-1 Advanced Ram Parachute System
- Electronic Automatic Activation Device
- T-11 Advanced Tactical Parachute System (ATAPS)
- MC-6 Steerable ATPS
- Advanced Emergency Bailout Parachute
- Parachutist Oxygen Mask

**Sustainment**

- ParaNavSys
- Mission Planning Laptop
- Advanced Emergency Bailout Parachute

**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

**Personal Clothing/Army Uniform Board**

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

NCOIC

Project Manager Soldier Sensors and Lasers

Fort Belvoir, VA

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.

Director, Business Management

Director, Operations & Technology Management

Director, Quality Assurance and Testing

Product Manager Soldier Maneuver Sensors

Deputy

APMs

Product Manager Soldier Precision Targeting Devices

Deputy

APMs

Director, Logistics Management

Director, Business Management

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

**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

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

AN/PED-1
Lightweight Laser Designator Rangefinder (LLDR)

- BAE
- DRS

Joint Effects Targeting System (JETS)

### 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 REF**
  - MIL: 4/4
  - DAC: 1/1

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

**REF Director**

**SGM**

**Deputy Director**

**Solutions Chief**

**Solution Cell**
- Research and Analytics
- Requirements
- Solution Team 1
- Solution Team 2
  - Requirement Development
  - Expeditionary Teams
  - Solution Development
- Outreach and Assessments

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

**Logistics**
- Facilities
- Transportation
- Warehouse

**Strategic Plans & Engagements**

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

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**Research and Analytics**
- Intelligence

**Requirements**

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

**Solution Team 2**

**Outreach and Assessments**

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**Forward Support**
- BAF: Forward Team
- BAF: Expeditionary Lab
- Kuwait: USARCENT LNO
- Iraq (RFS Pending): CFLCC-I LNO

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* Required /Authorized

** = REF personnel led by REF PM

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UNCLASSIFIED
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

UNCLASSIFIED
Video’s
Nett Warrior