PEO Soldier International Overview Briefing

9 September 2015

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Program Executive Officer Soldier
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PEO Soldier Mission

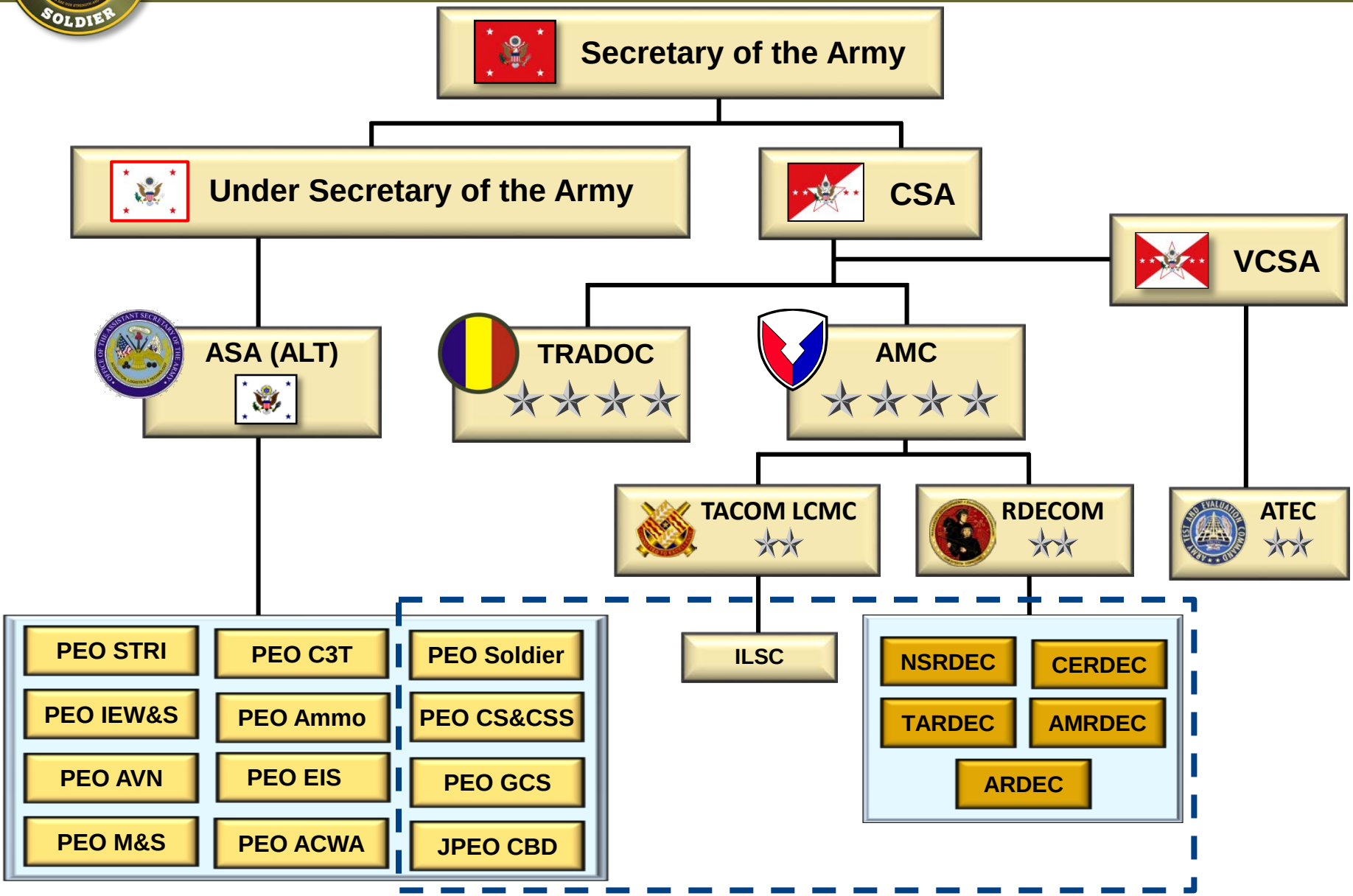
Develop, acquire, field, and sustain affordable, integrated, state-of-the-art equipment to improve Soldier dominance in Army operations today and in the future

We Are Here to Make a Difference
To America's Most Deployed Combat System

Soldier Equipment Evolution

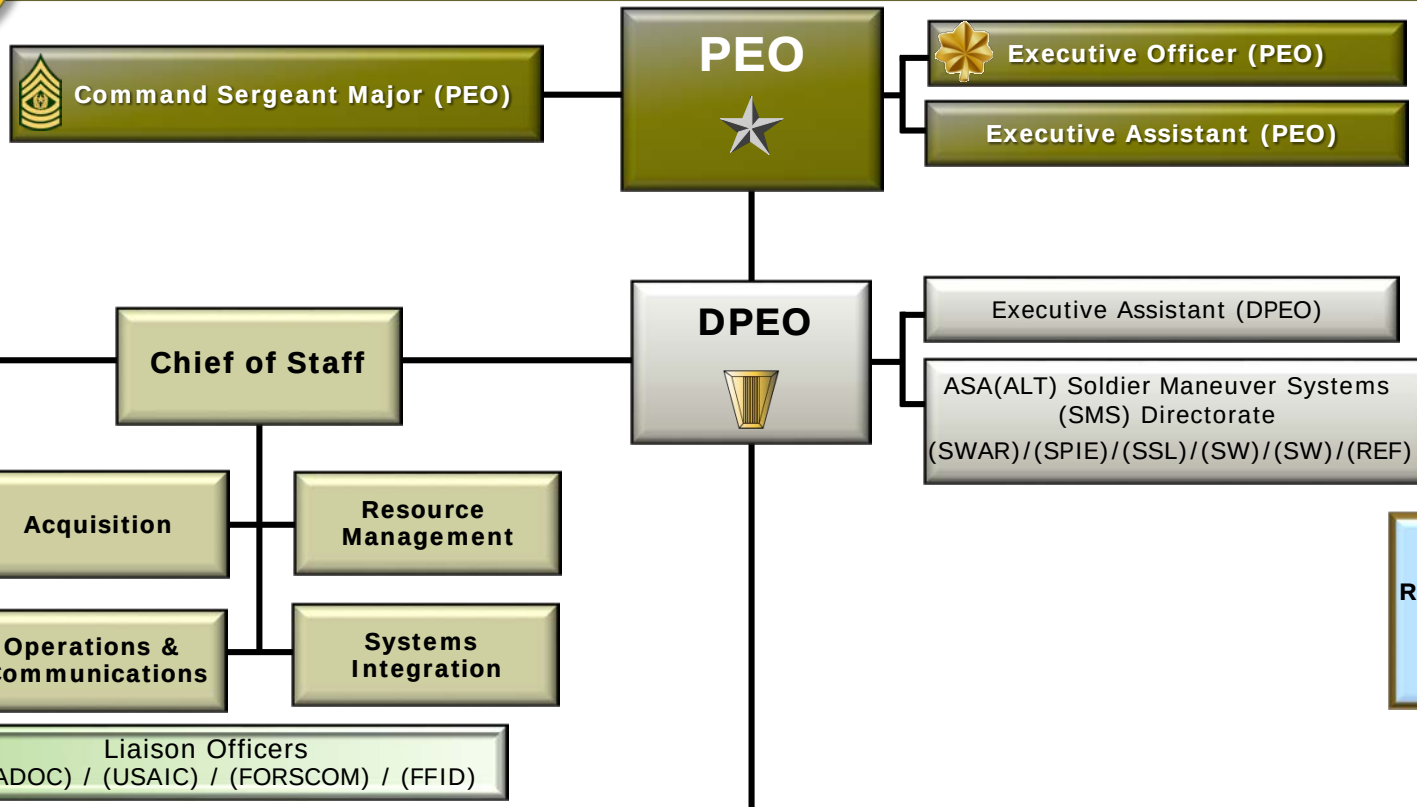
VIDEO:
Soldier Equipment Evolution
TIME: 3:02

Team Soldier Enterprise



Program Executive Office Soldier

As of: 3 August 2015

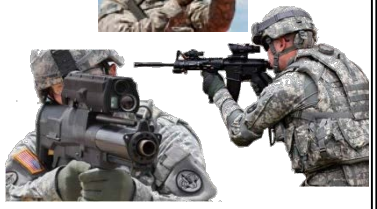


PEO Soldier Major Activities

As of: 11 August 2015

PM Soldier Weapons

Individual Weapons



Crew-Served Weapons

PM Soldier Warrior

Air Warrior

Ground Soldier

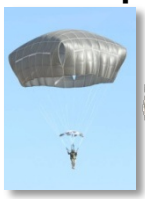
Soldier Systems & Integration

Mobile Handheld Computing Environment

PM Soldier Protection & Individual Equip

Soldier Protective Equipment

Soldier Clothing & Individual Equipment



PM Soldier Sensors & Lasers

Soldier Maneuver Sensors

Soldier Precision Targeting Devices

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)

BAE DRS

Joint Effects Targeting System (JETS)

PEO Soldier Online

PEO Soldier Website

peosoldier.army.mil

PEO Soldier Blog

peosoldier.armylive.dodlive.mil

Flickr

flickr.com/peosoldier

Facebook

facebook.com/peosoldier

Vimeo

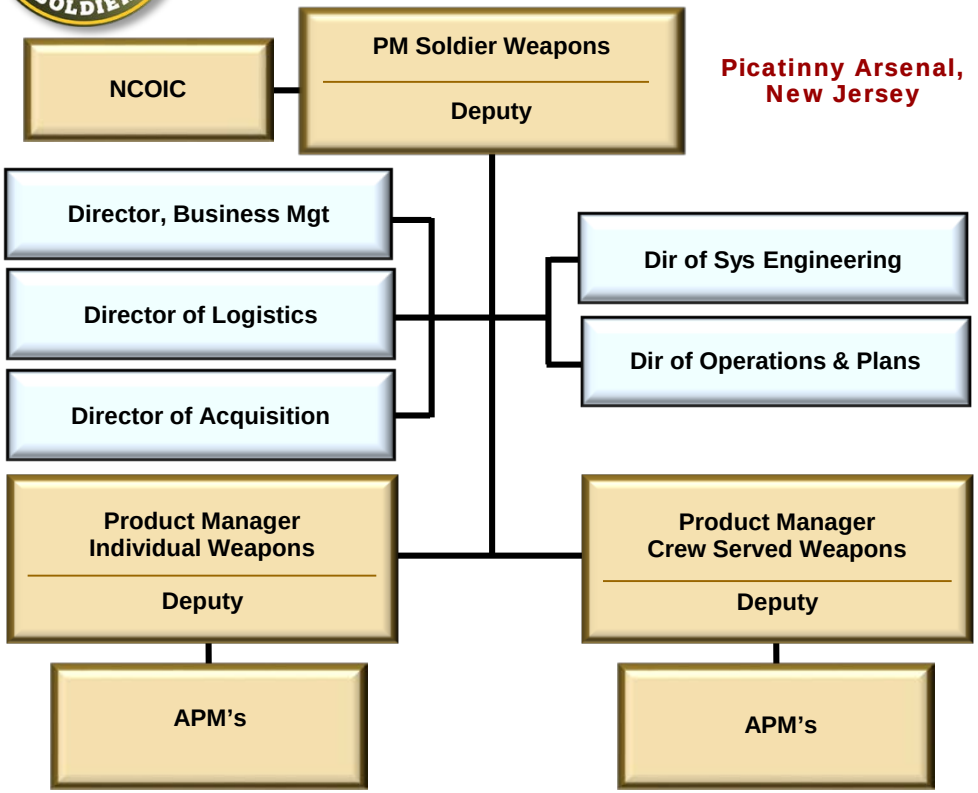
vimeo.com/peosoldier

Twitter

twitter.com/peosoldier

Back Ups

Project Manager Soldier Weapons



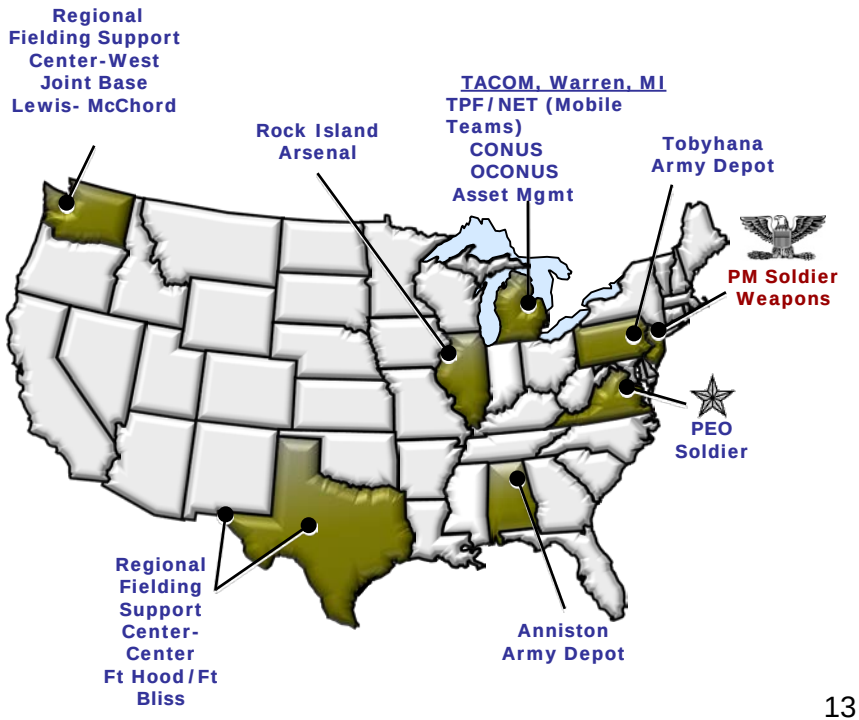
Picatinny Arsenal, New Jersey

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



Afghanistan

South Korea

As of 20 Feb 15

PdM IW Portfolio

Operations & Support

M1911
Pistol

M11
Pistol

M9
Pistol

M16A2/M16A4
Rifle

M203/M203A1/M203A2
Grenade launcher w/ M4

M14
Enhanced Battle Rifle (EBR)

M500/M590
Shotgun

M150
Rifle Combat Optic (RCO)

M68
Close Combat Optic (CCO)

M9
Bayonet

M7
Bayonet

Production & Deployment

M4/M4A1
Carbine

M320
Grenade Launcher Stand-alone

M320A1
Grenade Launcher w/ M4

M26
Modular Accessory Shotgun System (MASS) Stand-alone

M26
Modular Accessory Shotgun System (MASS) w/ M4

Individual Weapon Cleaning Kit

Enhanced Performance Magazine

Development

XM25
Counter Defilade Target Engagement (CDTE) Weapon System

XM1081 TP & XM1083 HEAB

XM17
Modular Handgun System (includes ammo)

M4A1E1
Carbine

Grenadier Sighting System (GSS)

Future
(images notional)

Next Generation Squad Weapon (Carbine)

Tactical Compact Shotgun

Subcompact

Suppressors

Small Arms Fire Control, Squad

Intelligent Rail

As of: 27 July 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)

M110 Semi-Automatic Sniper System (SASS)

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

Production & Deployment

M25A1 Stabilized Binocular

Non-Standard Weapons

M240L Medium Machine Gun 7.62mm

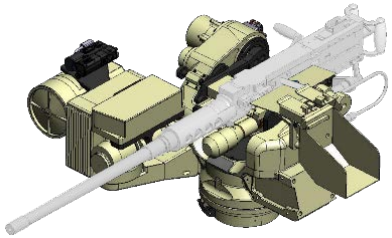
M3 Carl Gustaf (MAAWS)

M205 Lightweight Tripod

M153 Common Remotely Operated Weapon Station (CROWS)

Development

Compact Semi-Automatic Sniper System (CSASS)



CROWS Low Profile

XM1116 12 Gauge Extended Range NL Cartridge

XM1112 40mm Airburst NLM (ANLM)

Mounted Machine Gun Optic (MMO)

Future

Ammo 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

"Provide premier Soldier weapons systems enabling battlefield dominance"

As of: 27 July 15

Project Manager Soldier Warrior

Project Manager Soldier Warrior
Deputy

Fort Belvoir, VA

- NCOIC
- Chief, Business Management Division
- Chief, Operations
- Systems Engineer and Standards
- Mobile Handheld Computing Environment

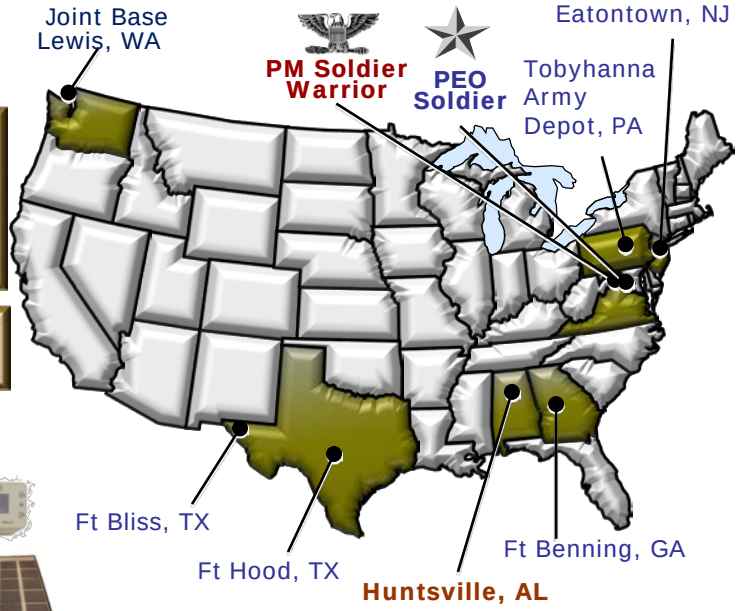
Product Manager Air Warrior
Deputy
Redstone, AL
- APM's

Product Manager Ground Soldier
NW Dep
NW CS Fielding Dep
- APM's

Product Director Soldier System Integration
Deputy
- APM's

Mission:

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



Encrypted Wireless Intercom

Electronic Data Manager

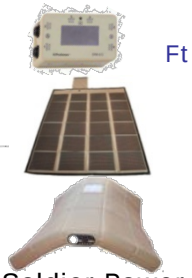
Air Warrior

Air Soldier System

Nett Warrior

Soldier Integration

Tactical Communication Protective System


Soldier Power

Product Manager Air Warrior

Air Warrior

Survival Gear Carrier

Portable Helicopter O_2 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

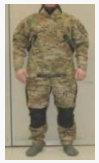
A/C Mounted Mission Display Module

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*

DARPA TRANS APPS

- **WhoDat** — *Virtual lineup/BOLO*
- **TIGR (Intel)** — *Events, Reports, Collections*

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

AN/PRC-154A

Conformal Battery

Cables and Logistics from Tobyhanna Army Depot

Support Equipment

Vehicle Integration Kits

Mission Planning Computer

Power Support Equipment

Modular Universal Battery Charger

Squad Power Manager

Solar Chargers and 1 KW Generator

Product Director
Soldier Systems & Integration

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

TCAPS-Lite

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

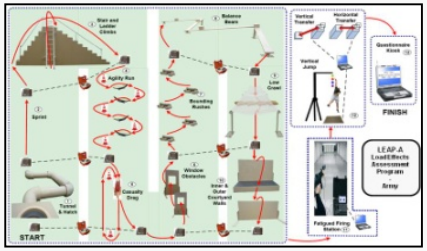
Warrior Integration Site (WinSite)

Manages the Soldier System baselines and informs the product development process

Scan prototypes
Create 3D models,
Print 3D prototypes
,Space claim analysis
Virtual communication tools
Load Bearing Mannequins

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

Buy-Try-Decide

Project Manager Soldier Protection and Individual Equipment

Project Manager Soldier Protection & Individual Equipment

Deputy

Fort Belvoir, VA

NCOIC

Director, Business Management

Director, Logistics

Director, Operations & Plans

Director, Technical Management

Director, Quality Assurance

Product Manager Soldier Clothing and Individual Equipment

Deputy

APM's

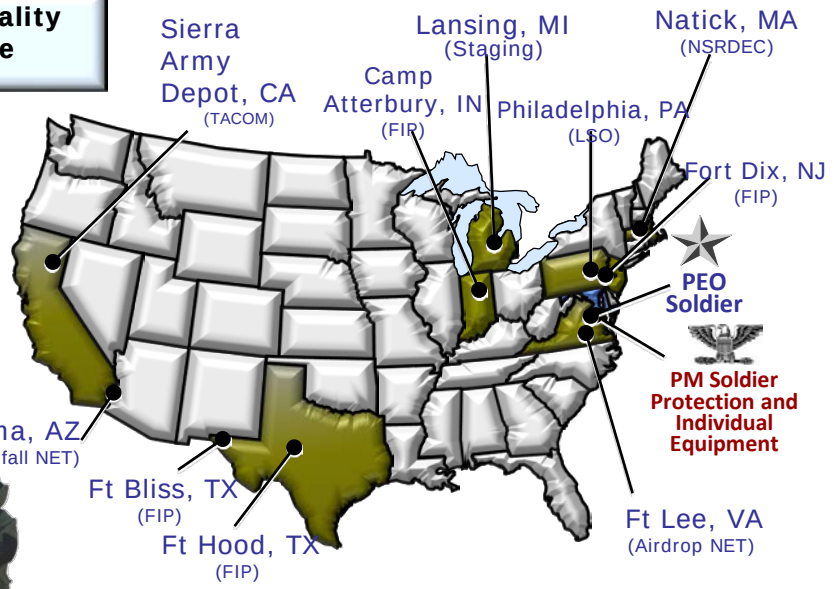
Product Manager Soldier Protective Equipment

Deputy

APM's

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

Soldier Protection System (SPS)

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)

Enhanced Combat Helmet (ECH)

Female IOTV

Ultra-Low Vis Concealable Body Armor

Pelvic Protection

Blast Gauge

GEN II Helmet Sensor

Military Combat Eye Protection (MCEP)

Future Development

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)

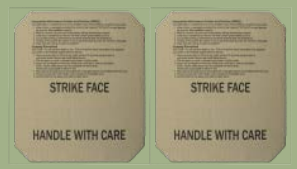
Enhanced Small Arms Protective Insert (ESAPI)

X-Threat Small Arms Protective Insert (XSAPI)

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

Armor Inspection System Non Destructive Test Equipment (AIS NDTE)

Enhanced Side Ballistic Insert (ESBI)



X-Threat Side Ballistic Insert (XSBI)

Nape / Neck Protector

Advanced Bomb Suit (ABS)

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

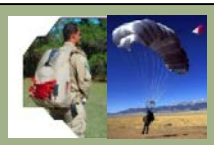
Product Manager Soldier Clothing & Individual Equipment

	Tactical and Environmental Clothing	Hand and Footwear	Individual and Unit Equipment
Program of Record Development/ Initial Production & Fielding	Fire Resistant Environmental Ensemble Army Combat Shirt Army Combat Pant OCP Flame Resistant ACU Army Garrison Food Service Uniform		Multi-purpose Personal Hydration System Individual Water Treatment Device Army Mountaineering Kit
Procurement for Rapid Fielding Initiative	Improved Combat Vehicle Crewman (iCVC) Ensemble OCP Flame Resistant ACU Army Combat Shirt Army Combat Pant Modular Ghillie Suit & Ghillie Suit Accessory Kit (GSAK) Extended Cold Weather Clothing System Army Aircrew Combat Uniform (A2CU) Fuel Handlers' Coverall	Hot Weather Mountain Combat Boot Temperate Weather Mountain Combat Boot Army Combat Gloves	Individual First Aid Kit II (IFAK II) Lightweight Performance Hood (LPH) Modular Lightweight Load carriage Equipment
Sustainment	JPACE JSLIST	HW &Temp Army Combat Boot Extreme Cold Weather Boot	Modular Sleeping Bag Systems

Product Manager Soldier Clothing & Individual Equipment

Program of Record Development / Initial Production & Fielding

RA-1 Advanced Ram Parachute System

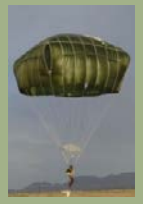


ParaNavSys

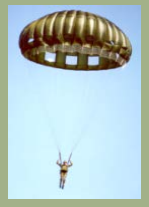
Sustainment

Electronic Automatic Activation Device

Parachutist Oxygen Mask



T-11 Advanced Tactical Parachute System (ATAPS)



MC-6 Steerable ATPS

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

Project Manager Soldier Sensors and Lasers

Deputy

NCOIC

Director, Business Management

Director, Operations & Technology Management

Director, Logistics Management

Director, Quality Assurance and Testing

Product Manager Soldier Maneuver Sensors

Deputy

APMs

Product Manager Soldier Precision Targeting Devices

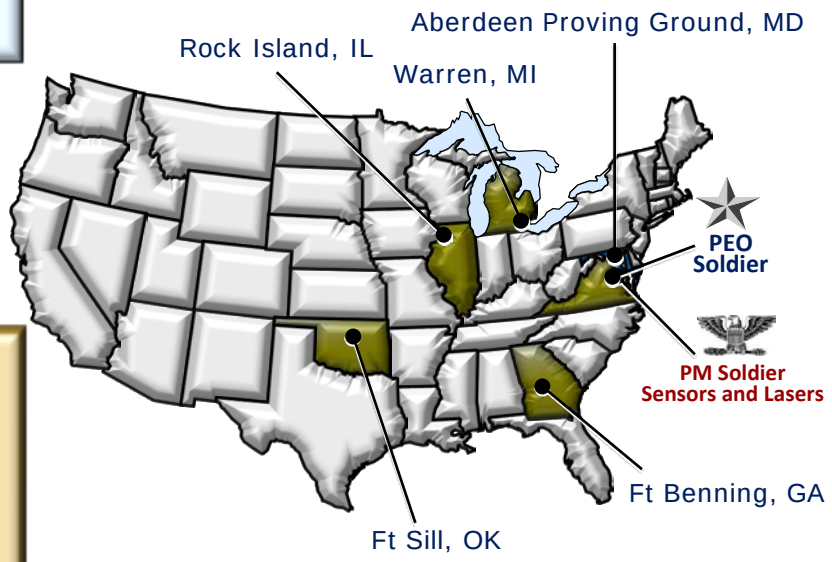
Deputy

APMs

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.



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)

HMD

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

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

Equip – Insert – Assess

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.

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

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

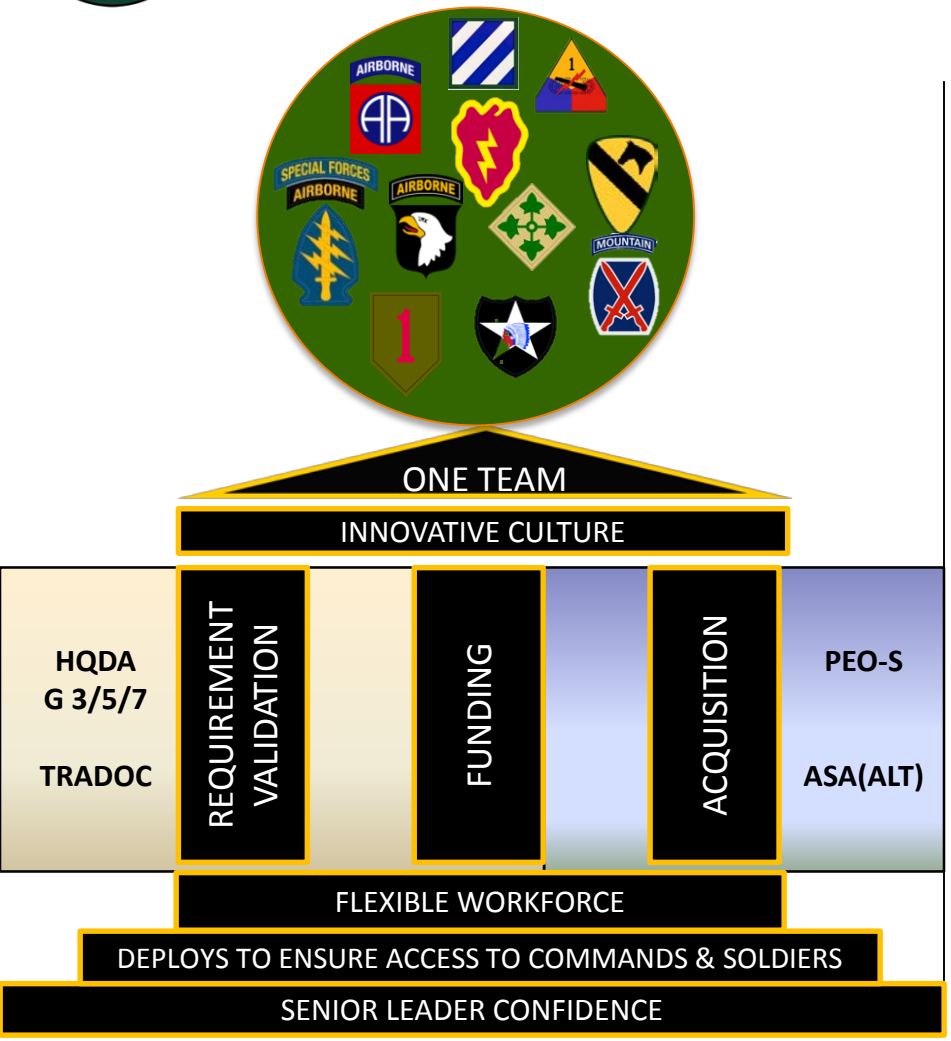
Altus
Requirement: Director's Initiative
Capability: Tactical aerostat platforms designed for small squad employment
Equipped: July 2010 – Ongoing
Insert effort that evolved into an equip and, ultimately, a harvest effort.

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

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

Equip – Insert – Assess



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

Equip – Insert – Assess

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

PM
REF
MIL: 4/4
DAC: 1/1

Special Staff
- XO
- PAO
- Scientist

REF Director

SGM

Milestone Decision Authority

Project Manager
- Acquisition Cell
- Acquisition Analytics
- Management Cell *

Solution Cell

Deputy Director Solutions Chief

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

Research and Analytics
- Intelligence

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

* 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

Equip – Insert – Assess

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

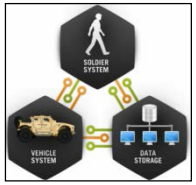
PackBot

Biometrics

Frag Kit

Army Organic Airborne Electronic Attack

Plate Carrier



I-BESS

Containerized Weapon System

Rhino

Boomerang

COSFPS/Kraken

Aerostats

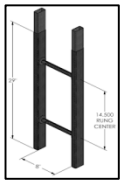
Minotaur

Counter-IED Interrogation Knives

LMAMS

Raven

Recon Robot

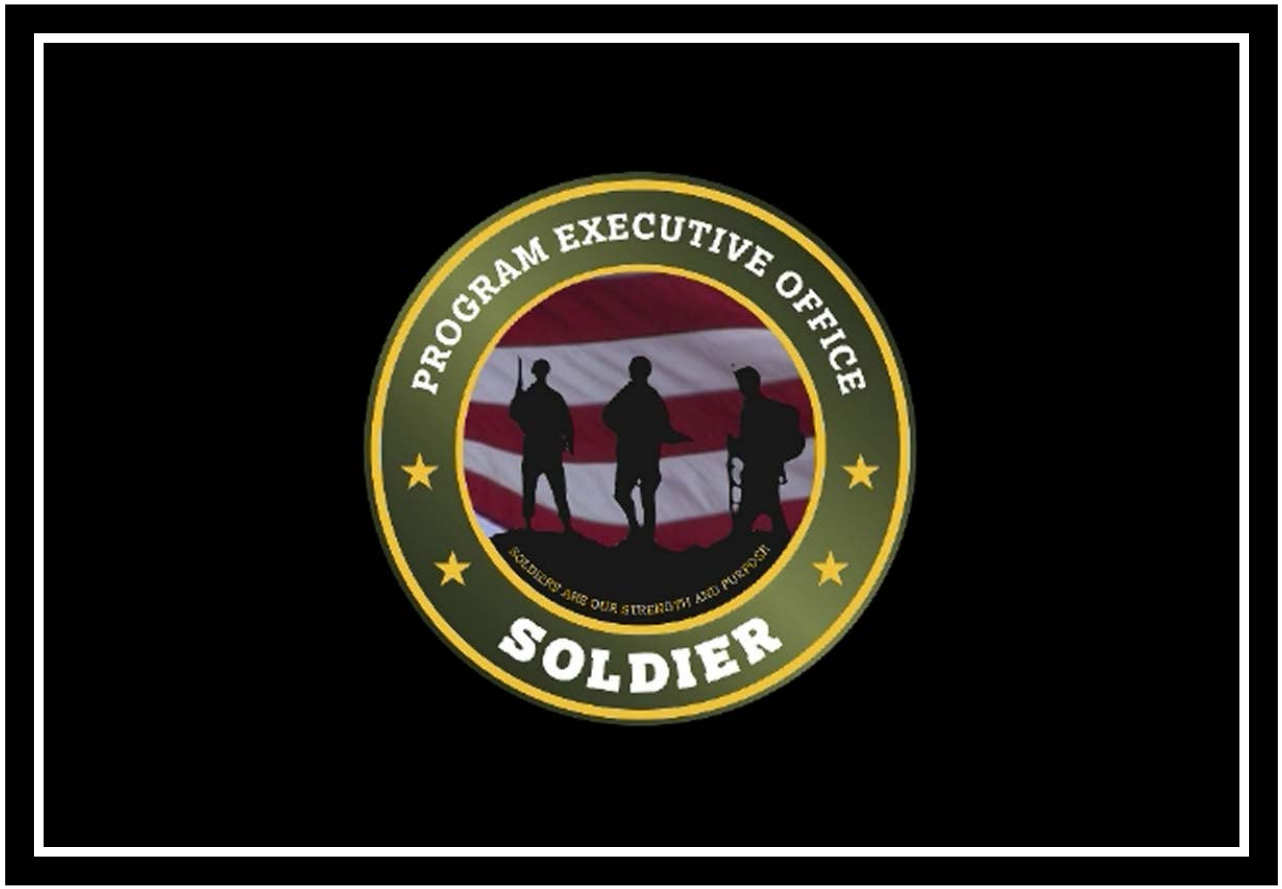

Assault Ladders

RDISS

MPLC

Video's

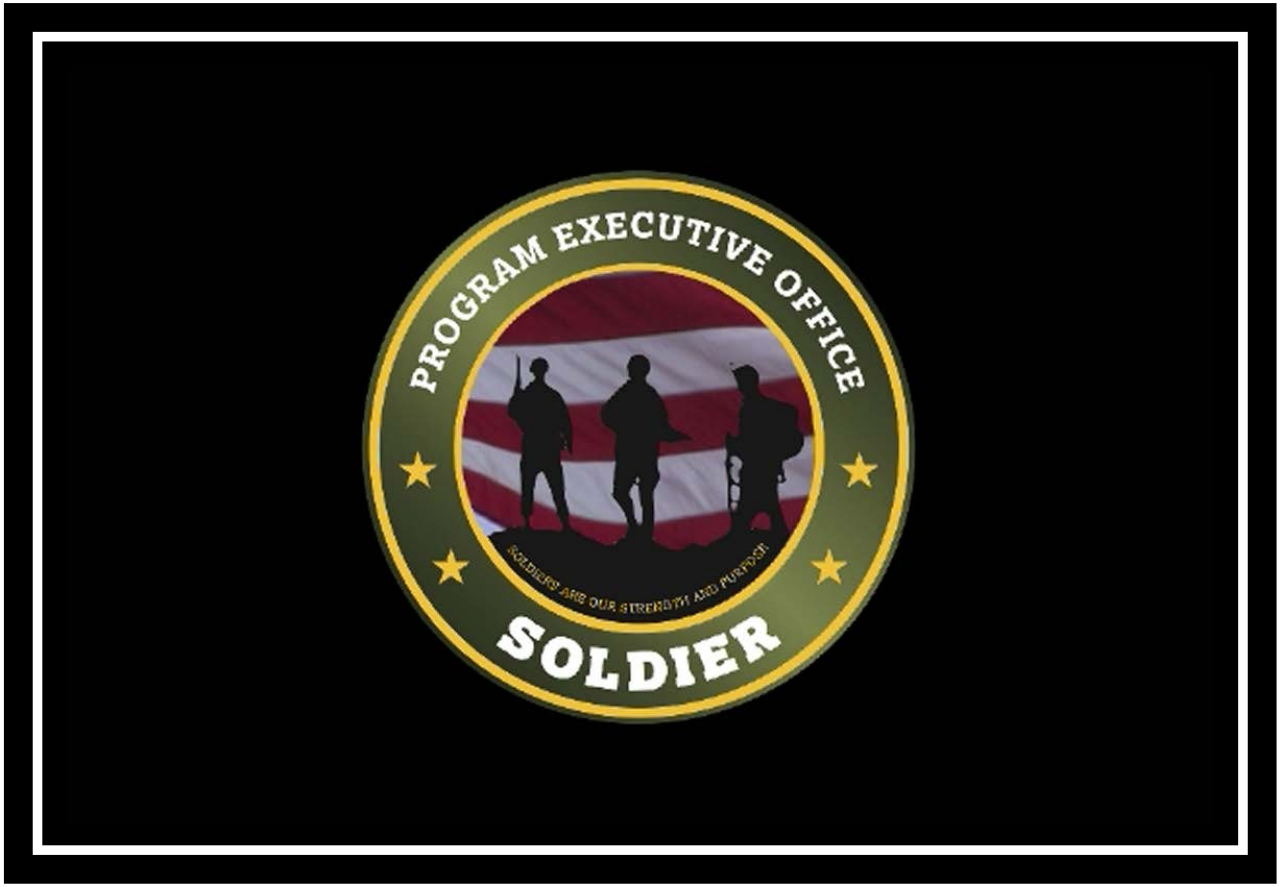
XM25



VIDEO:
MX25 Slow Motion lip
TIME: 1:06

BACK

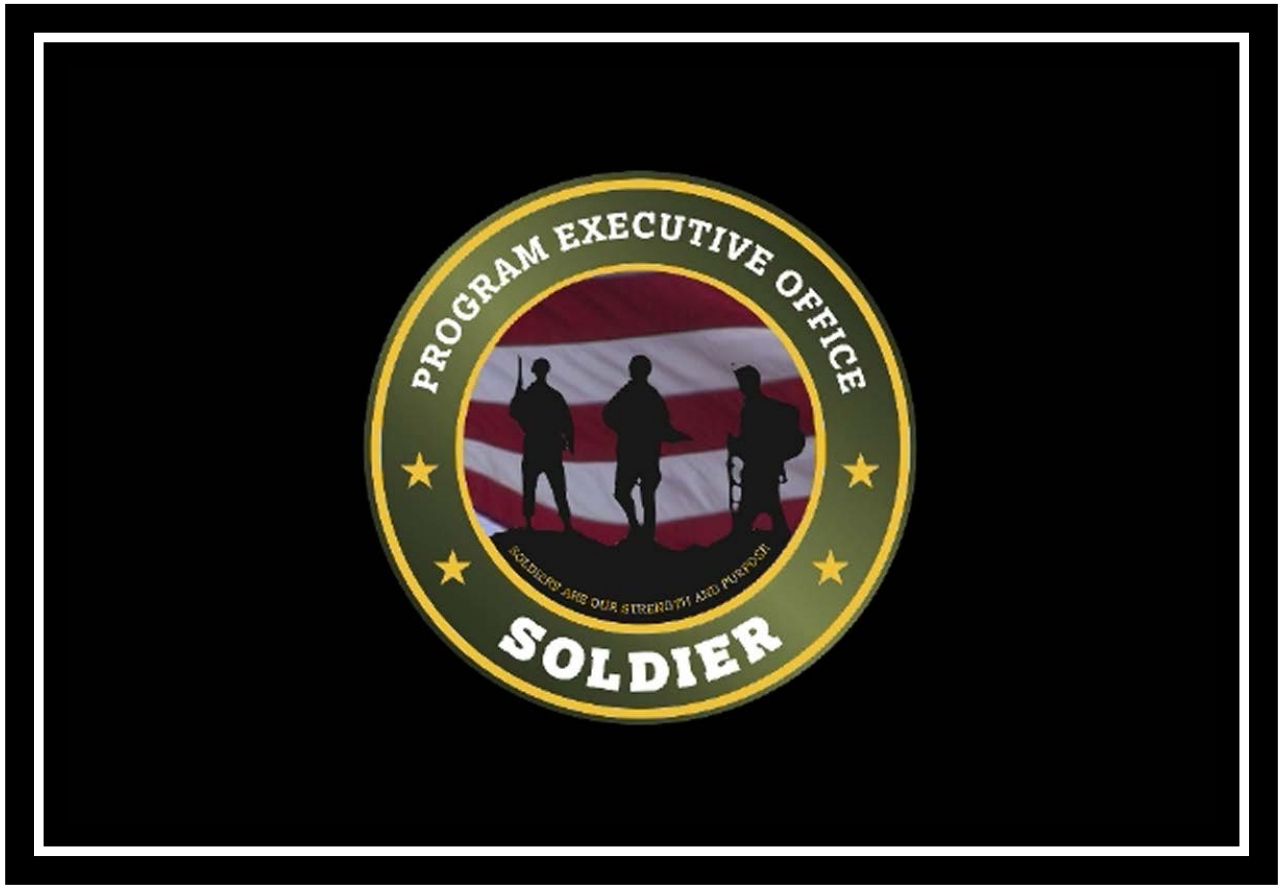
Nett Warrior



VIDEO:
Nett Warrior
TIME: 2:30

BACK

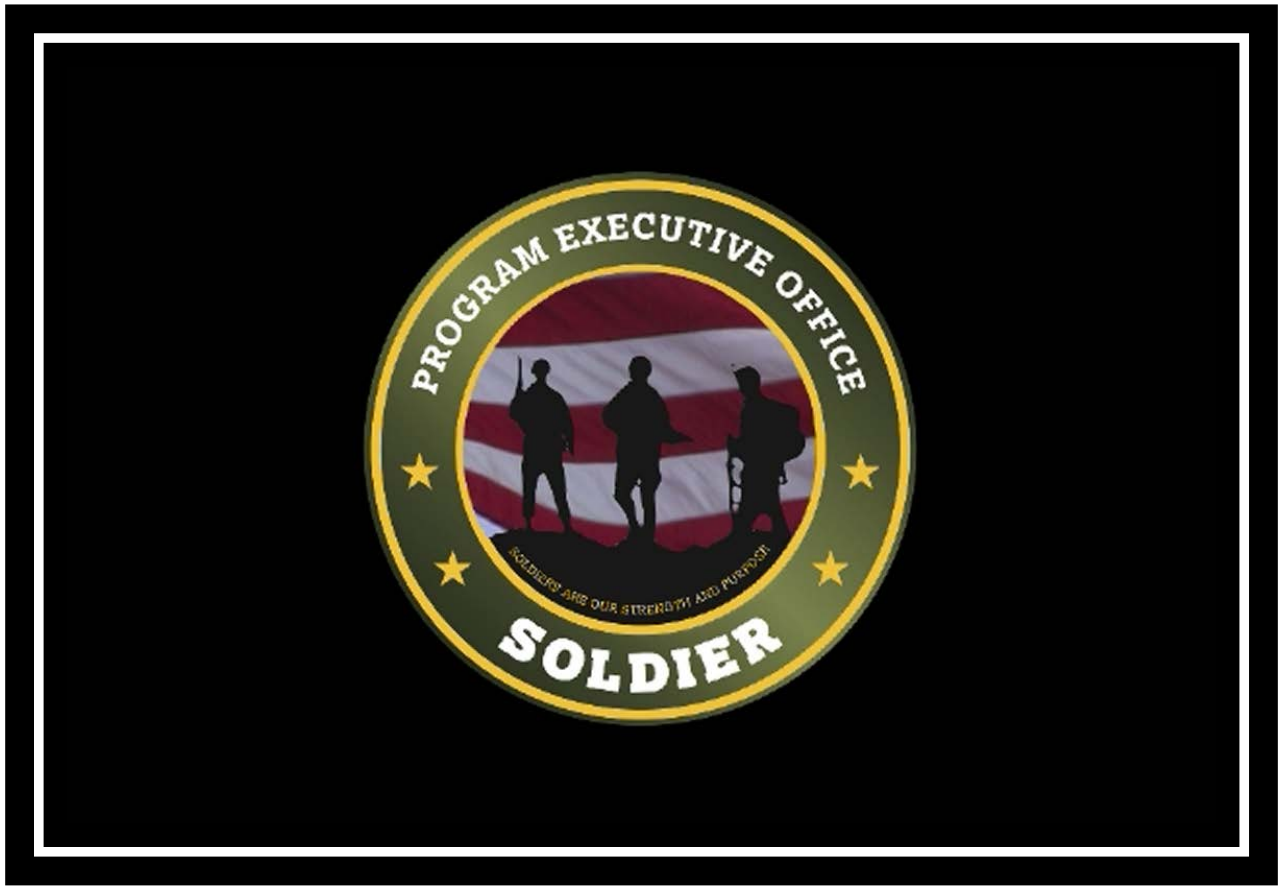
T-11



VIDEO:
T-11
TIME: 1:27

BACK

FWS-I



VIDEO:
FWS-I
TIME: 1:21

BACK