



**JSSAST  
MCoE  
David Libersat  
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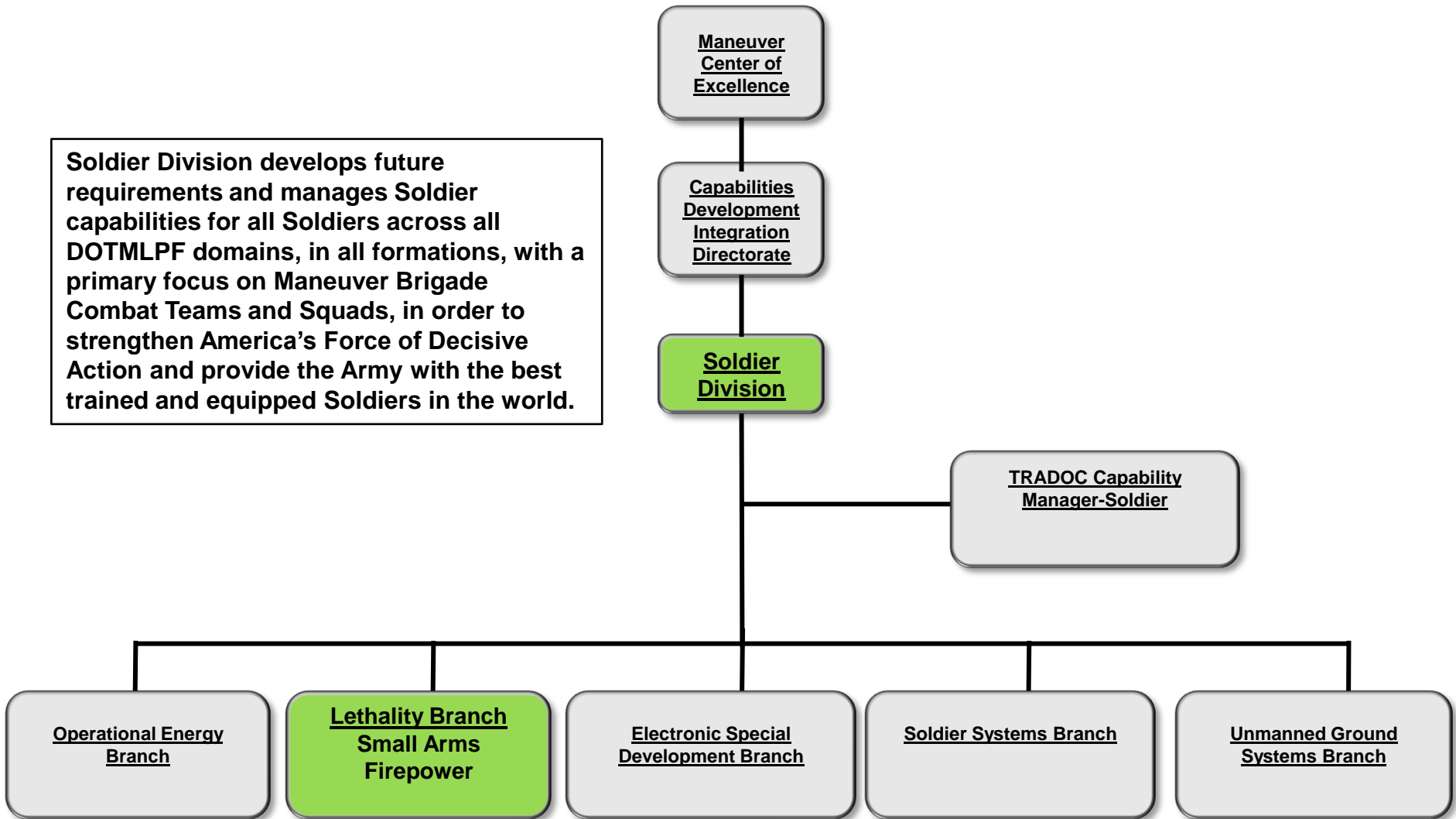




# Soldier Division

Capabilities Development & Integration Directorate

Soldier Division develops future requirements and manages Soldier capabilities for all Soldiers across all DOTMLPF domains, in all formations, with a primary focus on Maneuver Brigade Combat Teams and Squads, in order to strengthen America's Force of Decisive Action and provide the Army with the best trained and equipped Soldiers in the world.





# Lethality Branch



Capabilities Development & Integration Directorate

LTC Chris Kennedy  
Lethality Branch Chief  
christopher.s.kennedy8.mil@mail.mil  
(706)545-4950

Mr. Matt Walker  
Lethality Branch Deputy  
matthew.c.walker3.civ@  
(706)545-7226

### PROJECT NCOs

SFC James Robinson  
james.o.robinson16.mil@  
(706)545-2841

### SMALL ARMS

#### Individual Weapons

Mr. Charley Pavlick  
Individual & Specialty Wpns  
charles.r.pavlick.ctr@  
(706)545-5039

Mr. Mike Cassidy  
Sniper Wpns and Access.  
michael.t.cassidy10.ctr@  
(706)545-2459

Mr. Sam Horstman  
Optics & Airburst  
samuel.d.horstman.ctr@  
(706)545-4999

Mr. Daryl Easlick  
Close Effects  
daryl.a.easlick.ctr@  
(706)545-2972

#### Future Technologies

Mr. Al Self  
JSSAP LNO  
alton.l.self.ctr@  
(706)545-3181

#### Fire Control

Mr. Steve Howard  
SME  
steven.r.howard8.ctr@  
(706)545-6043

#### Ammunition

Mr. John Amick  
Programs  
john.w.amick.ctr@  
(706)545-5013

Mr. Terry Whittington  
Requirements  
terry.c.whittington.ctr@  
(706)545-1521

Mr. Richard Reed  
40mm Programs  
richard.reed.ctr@  
(706)545-4658

### FIREPOWER

#### MORTARS

Mr. Alex Wright  
Mortar Systems  
alexander.w.wright2.ctr@  
(706)545-3914

Mr. Bruce Pitts  
Mortar Ammunition  
bruce.p.pitts.ctr@  
(706)545-6186

#### Close Combat Missile Systems

Mr. Terry Hemminger  
TOW Missiles  
terry.j.hemminger.ctr@  
(706)545-3414

Mr. Francis Brissett  
Javelin Weapon System  
francis.m.brissett.ctr@  
(706)545-7317

#### Shoulder Launched Munitions and Soldier Munitions

Mr. Warren Turner  
Shoulder Launched  
gamaliel.turner.ctr@  
(706)545-4744

Mr. John Ryan  
Grenades  
john.j.ryan74.ctr@  
(706)545-6978

Mr. Justin Strayer  
Pyrotechnics  
justin.w.strayer.ctr@  
(706)545-9625

#### Non-Lethal (Force Protection)

Mr. Steven Howard  
Nonlethal  
steven.r.howard8.ctr@  
(706)545-6043

#### B-LOS (Precision Effects)

Mr. Rick Hairston  
LMAMS  
Richard.k.hairston2.ctr@  
(706)545-1076



# Soldier Division Focus Areas (Requirements)



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**S/D Focus Areas: Advance Fire Control, Weapons, and Ammo for Squads to improve ability to ID targets, improve P(h)/reduce Soldier induced error, reduce engagement time, and increase leader situational awareness and ability to direct the effects of his squad and external/joint enablers. Improve individual weapons portability/mobility, reliability, and lethality while reducing recoil and firing signature.**

Acquire and ID personnel (assess intent/activity and/or behavior) 1200m day/960m night in all conditions

Determine range to and location of, capture unique signature of, tag, track, and target handoff of stationary or moving targets  
600 Tm, 1200 Sq, 2400 PI

Improve engagement time and P(h) for individual weapons 0 to 600m in all environments while reducing Soldier induced error (no degrade 0-50)

Improve terminal effects against protected threats at small arms ranges up to 1200m

Suppress wpns firing signature to limit enemy combatant's ability to visually, acoustically, and thermally classify at 30m

Suppress wpn acoustic signature to limit enemy combatant's ability to localize at 125m

Suppress pointing/illuminating signatures from 50-1200m during day/night conditions

Reduce weapon recoil to allow constant sight picture during engagement

Increase weapon and enabler durability and power efficiency



# Summary of Small Arms Section Desired Capabilities



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## **Individual/Speciality Weapons**

- Carbine Product Improvement, multi-phase: Increased ROF; Improved full-auto standard trigger; Improved FWD Rails; Improved maintainability (lubricious & protective coatings), predictive failure/preventive maintenance (round counter); signature reduction, B-U sights; recoil mitigation; match-grade trigger; operating system study

## **Sniper Weapons/Accessories**

- Precision Sniper Rifle (PSR) CPD: At HQDA
- “Compact” Upgrade to M110 Semi-Automatic Sniper System (CSASS): Formal RFP closed Source Selection in Process

## **Pistols/Suppresions/Shotguns**

- Modular Handgun System (MHS)
- Signature Suppression capabilities for both visual and aural signatures
- Tactical Compact Shotgun (TCS) Standardize M500 (CPD in progress)

## **Crew Served Weapons**

- Mounted optics for Combat Service and Combat Service Support units
- Recoil-reducing mounts



# Summary of Small Arms Section Desired Capabilities (continued)



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## **Optics**

- Mounted Machinegun Optic (MMO)
- Small Arms Fire Control (Squad, Precision, Crew Served)

## **Small Caliber Ammunition Reduced weight**

- Reduced signature
- Reduced fouling and contaminants
- Improved terminal performance
- Improved intermediate barrier performance

## **40mm Ammunition Increased Lethality, Range , Improved Accuracy and Counter Defilade capability**

- Door Breaching capability
- Enhanced Short-Range Anti-Personnel Lethality
- Extended Range capability
- Extended Duration for Flare and Smoke



# Summary of Small Arms Section Desired Capabilities (continued)



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## Next Gen Squad Automatic Rifle

- Lightweight Weapons
- Lightweight Ammo
- Improved Probability of Hit
- Improved Probability of Incapacitation
- Addresses SA CBA/Squad Gaps (precise fire, volume fire, improved operation and maintenance, avoid detection, improve Soldier mobility)



# Summary of Firepower Section Desired Capabilities



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## **Mortars Precision Mortar Capabilities**

- Lightweight and Automated systems
- Extended range (All calibers)
- Precision
- Enhanced lethality across all calibers
- Early entry platforms (LEMS)

## **Nonlethal Munitions**

- Mounted platform capabilities
- Munitions with marking capabilities
- Extended range beyond current capabilities (Standoff )

## **Shoulder Launched and Soldier Munitions**

- Multi-target confined space capability
- Lightweight Systems
- Family of Systems
- Increased Ph and Pi at extended Ranges
- Multi-Colored Signal Hand Grenade
- Improved Tactical Hand Grenade





# Summary of Firepower Section Desired Capabilities



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## **Close Combat Missile Systems (TOW/ITAS and Javelin)–Multi-target**

- Enhanced Portability for Dismounts
- Dominant Lethality Overmatch
- Networked Interoperability
- Beyond Line of Sight
- Next Generation Missile compatibility

## **Lethal Miniature Aerial Munition System (LMAMS)**

- Organic lightweight, man-portable, day/night guided munition system that is capable of Line of Sight and Non-Line of Sight engagements through the use of live video feed from the munition to the fire control system.
- Target Wave-Off: Man-in-the-loop capability allows the operator to abort and/or redirect the munition if target parameters change
- Single Operator: Three distinct mission phases are mission preparation, fly out, and terminal engagement
- Soldier-operated munition will provide the capability to engage targets out to 10 kilometers and loiter for up to 15 minutes



# MCoE Soldier Division



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# Questions?