Major Leith Ames
Major Skip Barth
Acquisition Program Managers

PM - Ammo & Weapons
PEO - SOF Warrior Systems
PM – Ammo & Weapons Mission

Develop, procure and sustain Weapon, Visual Augmentation, Fire Support capabilities, and Munitions for specific missions when Service solutions do not meet SOF requirements.

SOF Unique Attributes/Focus:

- **VAS**: EXPAND LIMITED VISIBILITY ADVANTAGES over Sophisticated Threats
- **Fire Support Systems**: REDUCE THE WEIGHT of Pointers, Markers, Target Location Devices. Develop more PRECISE AND ACCURATE munitions systems
- **Weapons**: Improve suppressors (flash, sound & glint) for REDUCED SIGNATURE to obtain/maintain LOW VISIBILITY
- **Ammunition**: COVERTNESS through Flash-less powder, subsonic munitions; accurate across all temperatures
Ammo & Weapons Portfolio

• Visual Augmentation Systems
  – Helmet Mounted: Image Intensified (I²) Binocular, Clip-On Thermal Imager, Fusion
  – Handheld: Thermal Imagers, Laser Markers

• Weapons and Accessories
  – Combat Assault Rifles
  – Machine Guns
  – Sniper Rifles
  – Laser Pointers, Illuminators, and Suppressors

• Ammunition, Demolitions and Breaching
  – Small Caliber Ammunition
  – Shoulder Fired Systems
  – Aviation Ammunition
  – Demolitions and Pyrotechnics
# Visual Augmentation System Roadmap

## Helmet-Mounted Roadmap

**Binocular Night Vision Device**
- AN/PVS-15A
- Clip-On Thermal Imager (COTI)
- Binocular Night Vision Device (BNVD) AN/PVS-31

**Fusion Binocular Night Vision Device**
- Lightweight Fusion Goggle
- Advanced Fusion Goggle
- Enhanced DFG

## Hand-Held Roadmap

**Long Range**
- AN/PAS-24/24A
- Hand Held Imager - Mini Long Range (HHI-MLR)

**Medium Range**
- AN/PAS-26

**Pocket**
- AN/PAS-23

## Legend

- **SW PoR (based on P&R Docs)**: Shadowed box
- **S&T, DARPA, Lab Efforts**
- **Services Efforts**
- **Milestone (Reqt Doc, Contract Award/Re-compete)**: Tree
- **DT/OT, Production and Fielding**

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- **Sustainment**: Arrow with a triangle pointing to the right
- **Fielding/Sustainment**: Arrow with a triangle pointing to the right
- **In Sustainment**: Arrow with a triangle pointing to the right
- **Sustainment**: Arrow with a triangle pointing to the right
# Fire Support Roadmap

## FY 12 - 17 QTR 1 - 4

### Designators and Markers
- SOFLAM
- HLM
- SPOT-R
- HHTLD (Interim)
- STLD
- Visible Daylight Marker
- Combine Markers (Day/Night - Vis, IR, 1064nm)

### Legend
- SW PoR (based on P&R Docs)
- S&I, DARPA, Lab Efforts
- Opportunity
- Services Efforts
- Milestone (Reqt Doc, Contract Award/Re compete)
- D1/O1, Production and Fielding

### Sustainment

Fielding / Sustainment

Fielding/Sustainment

R&D

UNCLASSIFIED
# Weapon Mounted Lights and Lasers Roadmap

## Flashlights Roadmap

**Assault**
- Visible Bright Light (VBL IV)

**Crew Served**
- SU-263 (Visible Bright Light-Heavy)

## Weapon Laser Roadmap

**Assault**
- Advanced Target Pointer Illuminator Aiming Laser (LA-5/S/5D/5E PEQ)
- Out of Band Illuminator (Army - NVESD)
- Dualband Pointer & Illuminator (NVESD CWP)
- Wind Sensors
- SABER - SOF Advanced Ballistic Engine Rangefinder (LRF + Ballistic Calculator)
- Ruggedized Ultra-Light Laser Range Finder (RULR)
- Small Tactical Optical Rifle Mounted Laser Range Finder (STORM)
- Range Finder (component of disturbed reticle solution)
- Long Range - image data transmission for comm/intelligence gathering
- Target Marking
- Selectable Wavelength to Facilitate IFF
- Non-proliferated band illuminator/laser/sensor for sniper apps
- Synchronizing Laser with Optics to Reduce SWaP
- IR laser illuminator adjustable for short-range urban to long-range in one

**Crew Served**
- LA-11/PEQ (CSHWAL)

### FY Roadmap

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# Weapon Mounted VAS Roadmap

## VAS Weapon Sight Roadmap

### Sniper
- **Improved Night/Day Observation Device (INOD) Block 4**
- **Improved Night/Day Observation Device (INOD) Block 3**
- Ability to provide facial recognition at max range (1500-2000m)
- Adaptive multispectral night vision
- Ability to import/export data or images (wireless)
- Ability to sense wind at max range and calculate ballistic offset
- **ARMY - AN/PVS-30**

### Assault
- **Clip-On Night Vision Device - Fusion (CNVD-SF)**
- **Clip-On Night Vision Device - Image Intensified (CNVDI)**
- **Clip-On Night Vision Device - Thermal (CNVDT)**
- Adaptive multispectral night vision
- Ability to import/export data or images (wireless)
- **MARINES - Squad Thermal System (clip-on weapon/hand-held)**

### Crew Served
- **ARMY/MARINES - AN/PAS-13**

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### Legend
- **SW PoR (based on P&R Docs)**
- **S&T, DARPA, Lab Efforts**
- **Opportunity**
- **Services Efforts**
- **Milestone (Reqt Doc, Contract Award/Re-compete)**
- **DT/OT, Production and Fielding**
# Weapon Mounted Day Sight Roadmap

## Day Sight Roadmap

### Sniper
- 5-25x Nightforce
- PSR Scope
- Range dependent disturbed reticle sight
- Modular Sniper Display

### Assault
- SU-231/AD & 3x Extnnder, (BLK 2 ECOS-CQB)
- SU-230/A/B/C/D/E PVS, SU-261/A (MRS) (BLK 2 ECOS-C)
- Combination mid range/CQB sight (ECOS-O)
- Range dependent disturbed reticle sight
- MARINES - Squad Thermal System (clip-on weapon/hand-held)

### Crew Served
- SU-264/PEQ (ECOS-C/H)
- Range dependent disturbed reticle sight (Phase 2 CSW IFC)
- MARINES - Heavy Machine Gun Sight System Development

## Legend
- SW PoR (based on P&R Docs)
- S&I, DARPA, Lab Efforts
- Opportunity
- Milestone (Reqt Doc, Contract Award/Re-compete)
- DT/OT, Production and Fielding
- Services Efforts
- In Development
- S&T Development Efforts
- Recompete
- Fielding/Sustainment
# Sniper Weapons Roadmap

## Weapons

### Light
- **MK20 SSR (7.62mm)**
- **M110 SASS (7.62mm)** (Army/USMC)

Marking: Fielding/Sustainment-MK17 w/Long Barrel/MK20 to replace MK11/MK12
- Fielding/Sustainment-M110A1 w/enhanced, ergonomics, usability, optics in development

### Medium
- **MK13 MOD5 (300 WINMAG)**
- **PSR (Caliber 338, 7.62mm, 300 WINMAG)**
- **M2010 (300 WINMAG)** (Army)

Marking:  
- Begin Transition to MK13 MOD7 for MARSOC and NAVSOC
- K Award ➔ DT/OT ➔ IOC
- Fielding/Sustainment - Potential transition to PSR

### Heavy
- **MK15 (.50 cal)**
- **M107 (.50 cal)** (Army/USMC)

Marking: Sustainment - MK15 Unique to NAVSOC

Marking: Fielding/Sustainment - M107A1 w/improved accuracy, ammo, reduced weight in development

## Suppressors

### MK13 Replacement Suppressor

Marking: Phase Replace via Overhauls with MK13 MOD7

## Legend

- SW PoR (based on P&R Docs)
- S&T, DARPA, Lab Efforts
- Opportunity

- Services Efforts
  - Milestone (Reqt Doc, Contract Award/Re-compete)
  - DT/OT, Production and Fielding
## Assault Weapons Roadmap

### Assault Systems

**Weapons**
- M4A1 (5.56mm) (Army/Navy/USMC/AF)
- MK17 (7.62mm w/modular barrels)
- 5.56mm Parts Conv Kit for MK17
- EGLM (40mm)
  - Fire Control Unit
  - IC (caliber - tbd) (Army)
  - IAR (Marine Corps)

### Suppressors

**COTS**
- Next Generation SOF-SASR/OSASS Increment 1
- Next Generation SOF-SASR/OSASS Increments 2-4

### Timeline

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- **Fielding/Sustainment**
  - Working incremental improvements heavier barrel, improved OS
  - Fielding/Sustainment
  - FUE
  - Awaiting Decision to Field
  - Sample Testing
    - IOC
    - FOC Fielding/Sustainment

- **FMBS-C/H/S**
  - Fielding/Sustainment
  - K Award for MK48
  - MS B
  - K Award for SMG
  - K Award

### Legend
- SW PoR (based on P&R Docs)
- S&T, DARPA, Lab Efforts
- Opportunity
- Services Efforts
- Milestone (Reqt Doc, Contract Award/Re-competes)
- DT/OT, Production and Fielding
# Crew Served Weapons Roadmap

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## Fully Integrated Fire Control Solution for Machine Guns

### Suppressors

- .50 Cal Flash Hider

## Legend

- **SW PoR (based on P&R Docs)**
- **S&T, DARPA, Lab Efforts**
- **Opportunity**
- **Services Efforts**
- **Milestone (Reqt Doc, Contract Award/Re-compete)**
- **DT/OT, Production and Fielding**

### Notes:

- CPD
- Fielding/Sustainment
- Sustainment
- Follow On Spares K Awarded
- DAC K Award
- DT/OT