

SOPMOD PROGRAM OVERVIEW

19 May 2005

PRESENTED BY:
MR. GUS TAYLOR
SOPMOD PROGRAM MANAGER











SOPMOD Program Overview



Presented to NDIA Small Arms Symposium





Overview Agenda

- Mission
- Structure of the Program
- SOPMOD Block 1 Overview
- Increment 2 Overview
- SOPMOD Future
- Questions and Comments









Mission

The SOPMOD Program Management Office at NSWC Crane, IN, will provide standardized, versatile weapons accessories to meet needs across SOF mission scenarios. These accessories will increase operator survivability and lethality by enhanced weapon performance, target acquisition, signature suppression, and fire control. SOPMOD PMO will provide these accessories when they are operationally suitable, affordable, sustainable, and funded.





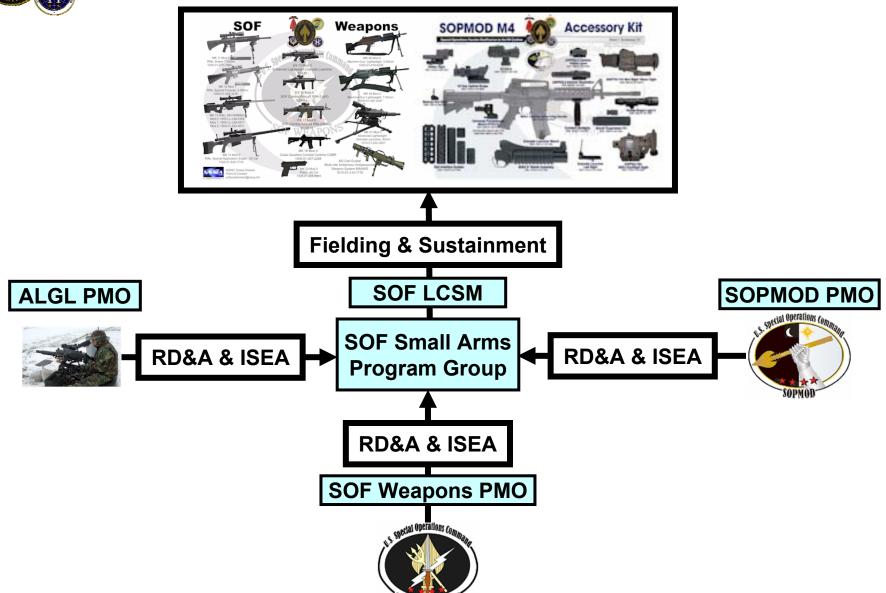
Capabilities Required:

- Standardized versatile weapons accessories
- Modular- meets needs across SOF mission scenarios
- Increased operator survivability and lethality by enhanced target acquisition, signature suppression, and fire control
- Evolutionary Acquisition Subprograms:
 - Block I (Plus Platform Mods and Phased Replacements)
 - Block II (New and Combined Capabilities)
 - Block III (Emerging Capabilities)





TASK ORGANIZATION





SOPMOD Bosses





Quality

SOPMOD, as part of NSWC Crane, is ISO 9001 Certified

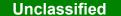


Our Quality System is a set of formally documented activities that are carried out to ensure that we satisfy our customers' requirements.

Our Quality System is based on, and officially certified to, the requirements of ISO 9001-1994, an international standard for quality assurance in design, development, production, installation and servicing.









External Clients



NSWC Crane Supports "Paying Customers" outside of USSOCOM

Block 1

SOPMOD M4

4X Day Optical Scope NSN: 1240-01-412-6608



Accessory Kit

Special Operations Peculiar Modification to the M4 Carbine

Poster Version 3 February 2005

Reflex Sight NSN: 1240-01-435-1916



ECOS-N NSN: 1240-01-495-1385



AN/PEQ-5 Carbine Visible Laser NSN: 5860-01-439-5409







Block I Accessory Kit Logistics Support: sofsustainment@navy.mil

Website: http://ssavie.socom.mil

NSN: 5855-01-474-8904

Backup Iron Si



Universal Pocketscope Mount (PVS14)

NSN: 5855-01-482-6164

(PVS18) NSN: 5855-01-485-7749 (M68) NSN: 5855-01-485-7755





Forward Handgrip NSN: 1005-01-416-1091



NSN: 1005-01-437-0324



Rail Interface System NSN: 1005-01-416-1089



M203 9" Barrel Assembly NSN: 1010-01-410-7422



Grenade Launcher **Leaf Sight** NSN: 1010-01-418-4588



AN/PSQ-18A M203 Day/Night Sight NSN: 1010-01-516-0953

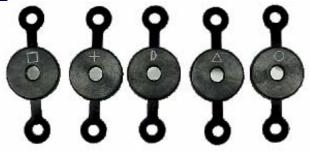


SOPMOD Block 1 Modifications

PRIOR



ACOG 4x ANTI-REFLECTIVE DEVICE (ARD)



AN/PEQ 2 PATTERN GENERATORS



MNVS AN/PVS 17 THROW-LEVER MOUNTS



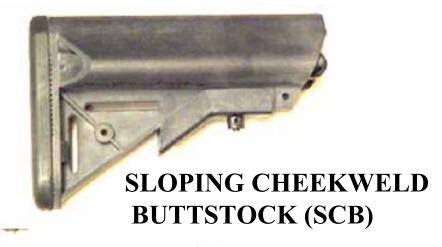
IMPROVED QD SUPPRESSOR ATTACHMENT



M4A1 Carbine Modifications PRIOR



EXTRACTION PARTS SET #2





HIGH RELIABILTY MAGAZINES (HRM)



M4A1 Carbine Modifications

NEW



EXTENDED CHARGING HANDLE



REDI-MAG



AMBIDEXTROUS SELECTOR



NAVSPECWARCOM SLING



SOPMOD Phased Replacements

PRIOR



ENHANCED COMBAT OPTICAL SIGHT - NAVY (ECOS-N) REPLACES or SUPPLEMENTS



ACOG Reflex Sight (In WARCOM ONLY)



VISIBLE BRIGHT LIGHT II (VBL II) REPLACES or SUPPLEMENTS



VISIBLE LIGHT ILLUMINATOR



SOPMOD Block 1

New Modifications





AN/PVS-17A UPGRADE KIT



ACOG 4X MINIATURE RED DOT (MRD) PIP



SUREFIRE VBL II 6-VOLT MINIATURIZATION KITS



New User Assessments



RED DOT MAGNIFIERS



GAS-DEFLECTING CHARGING HANDLES



SCOUT LIGHT



SOPMOD Block 1 New Fielding Adds



SOFT CASES



ECOS-CQB (Upgraded Holosight)



PEO-SP / SOPMOD Accomplishments



- Fielded \$90M in War Equipment Since 9-11, 107,000 End Items in the Field
- Fielding \$47M in New Equipment this Year, 58,000 End Items
 Inbound



MDNS



Enhanced Combat Optical Sight - Carbine (ECOS-C)



Clip-on Night Vision Device – Thermal (CNVD-T)







Enhanced Combat Optical Sight - CQB (ECOS-CQB) Advanced Target Pointer/ Illuminator/Aiming Laser (ATPIAL)

Clip-on Night Vision Device – Image Intensification (CNVD-I²)



Backup Iron Sight II (BIS II)

Competition Sensitive



Mini Night Vision Sight (PIP)





Rail Interface System II (RIS II)



Visible Bright Light III (VBL III)

Competition Sensitive



MDNS Client Weapons

SOPMOD ORD 5 - Core Small Arms (Threshold) ... Design For Use On:

M4A1 Carbine M203 Grenade Launcher

ORD Annexes - Additional Weapons (Objective)

....Harden For Use On, and possibly develop versions for:

SCAR

CQBR (Mark 18)

MK46 LMG / M249 SAW Machineguns

MK48/ M240-N/M240/M240-B Machineguns

M14 and Mark 14 Enhanced Battle Rifle

AK-47/AK74 Series Assault Rifle

Mk-19 40mm Machinegun

M2-HB .50 Cal Machinegun

M72 LAAW

AT4-CS

MAAWS

MK11/SR 25 Sniper Rifle

MK12 Sniper Rifle

M-24 Sniper Rifle

300 WINMAG Sniper Rifle

50 SASR & M107 50 cal Sniper rifle



MDNS Weapons of Interest



Limited Interest – Generally Covered by UNS (AN/PVS 22), MUNS, DUNS



TOP MAP

SOPMOD Top Map Review

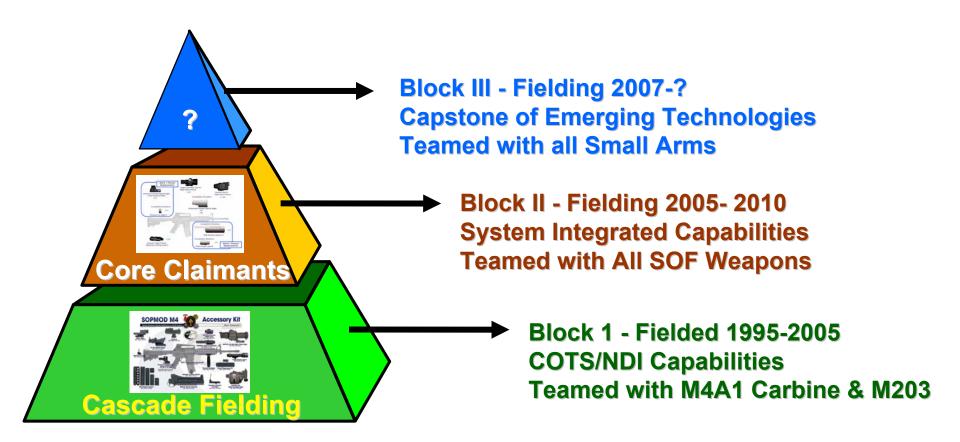








TOP MAP STRATEGY





TOP MAP OVERVIEW

- Overview Top Map Shows Entire System at a Glance
- Five Detailed SOPMOD Accessories Top Maps Show Main Subsystem Categories
 - 1. Carbine Improvements
 - 2. Passive Day Aiming Systems
 - 3. Passive Night Aiming Systems
 - 4. Active Aiming Systems
 - 5. Weapons Shot Counters





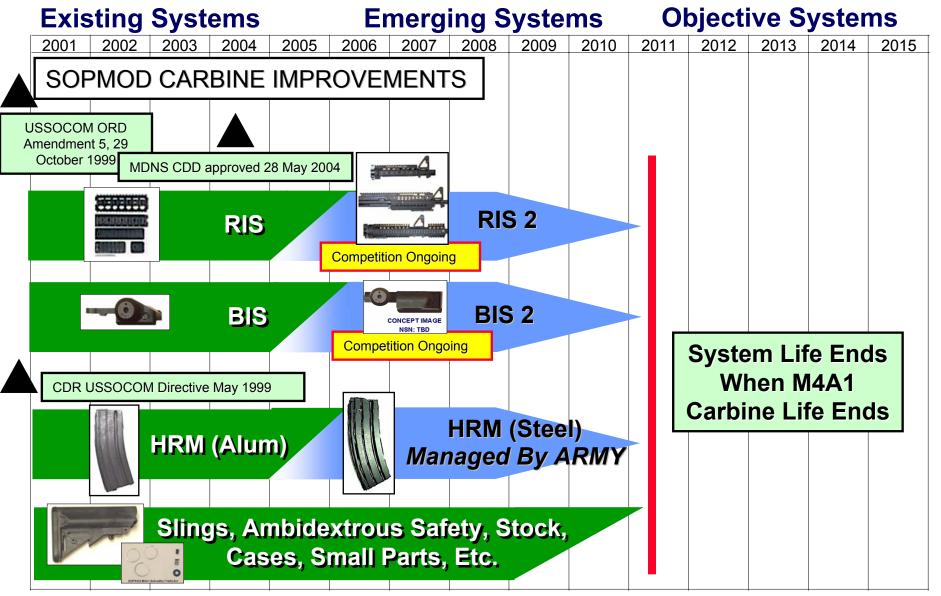




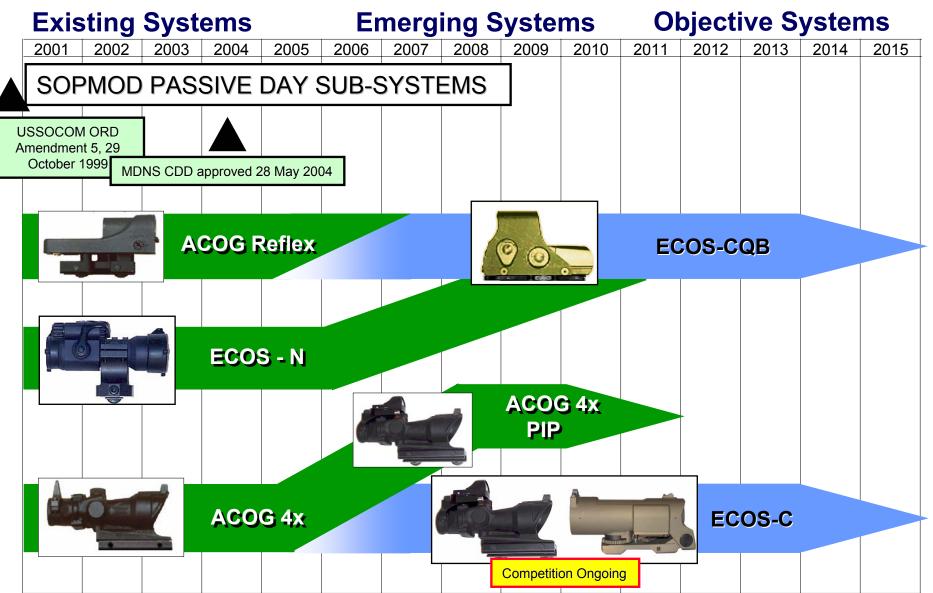
Existing	Systems	Emerging Systems					Objective Systems				
2001 2002	2003 2004	2005 2006	2007 20	800	2009	2010	2011	2012	2013	2014	2015
SOPMOD	ACCESSO	RY KIT OV	'ERVIEV	N							
SOPMOD Incr	ement #1 (19	94-2007+)									
SOPMOD M4	Accessory Kit										
		SOPMOD	1								
Billion - S. J.		1994-2008+									
	<u> </u>		Enhanced Combat		Clip-on Night Vision D	Block 2					
			Sight - Carbine (E) Enhanced Combat Optical Sight - COR (ECOS-COR)	Advanced Targe Burninator/Aim (ATPIAI	ning Laser	Clip-on Night Vision Devic - Image Intensification (CNVD-17)	. 3	OPMC)D 2:		
			sight - CGB (ECOS-CGB)		and A	(CNVD1)			wsc		
			Backup Iron Sight II (BIS II) Competition Sensitive		Block 1 Phased Replacements	4	2	004 -2	0124		
			Visible Bright Light III (VBL II	III) Mini Night \	Vision Sight Rail In	nterface System II (RIS II)					
			Competition Sensitive	(Pi	IP)		_		SOP	MOD :	3
										-???	
SOF	PMOD 1 & 2	Compatible	With bo	th M	4A1 C	niens	e and	SCAR			

SOPMOD 2 Compatible With All SOF Weapons

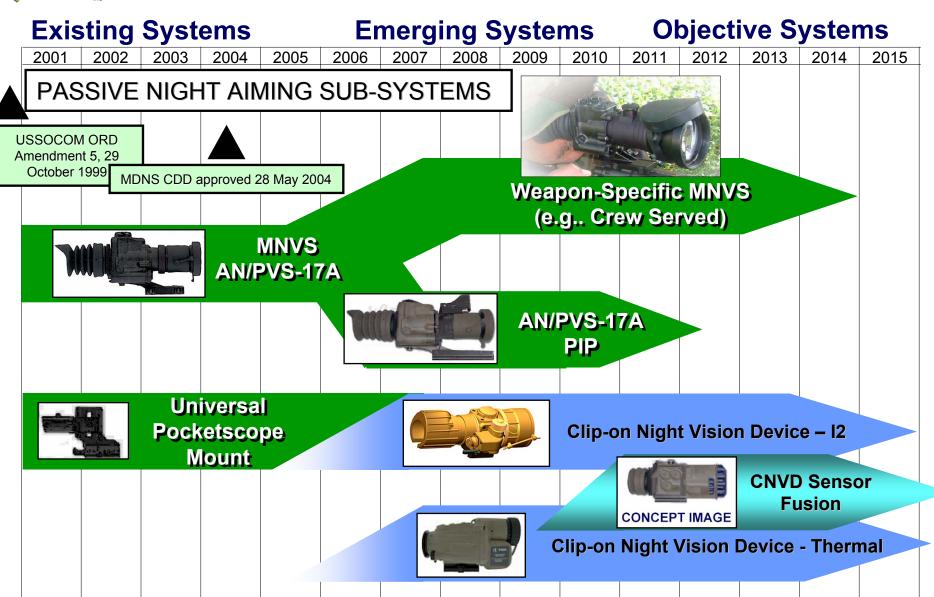














CNVD-Sensor Fusion Opportunity



CONCEPT IMAGE

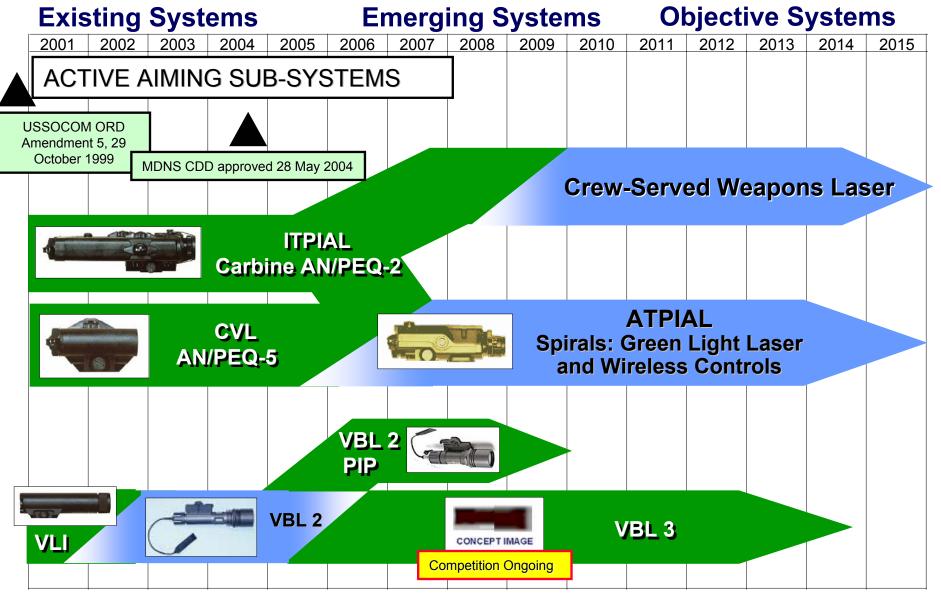


Initial Objectives:

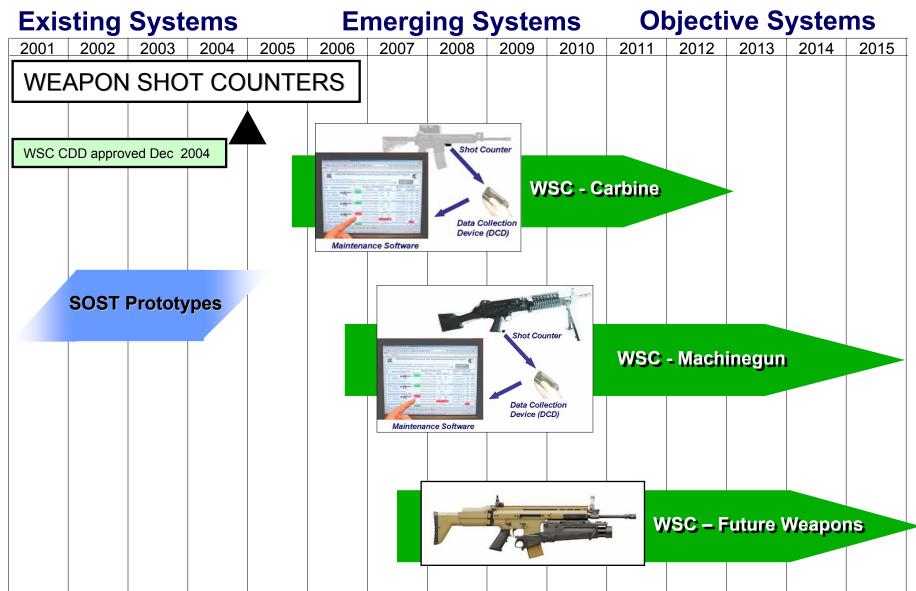
1. Improved Target Acquisition

- 2. Less than 2 Pounds
- 3. Less than \$20K Per Copy



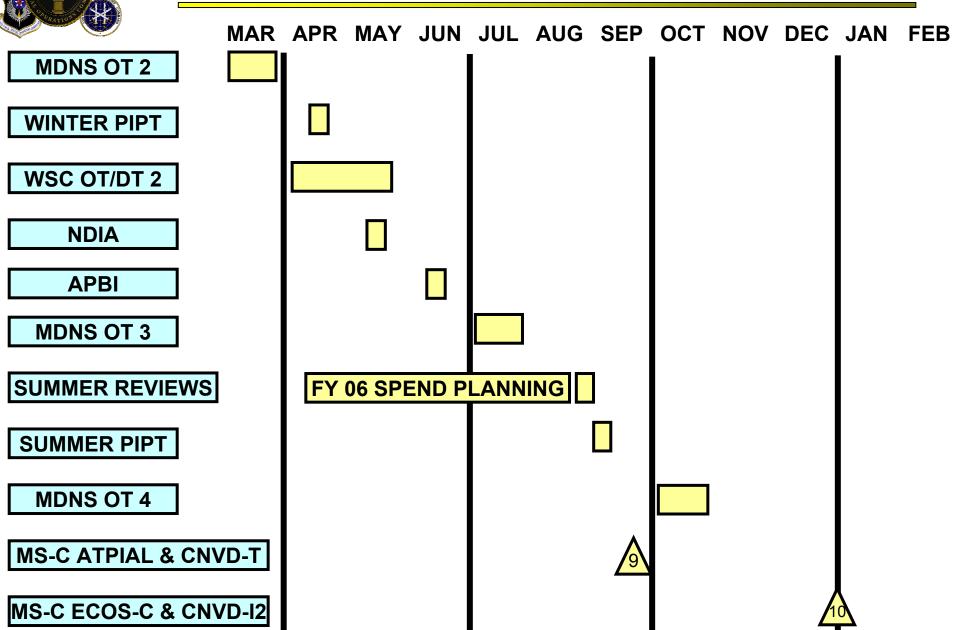






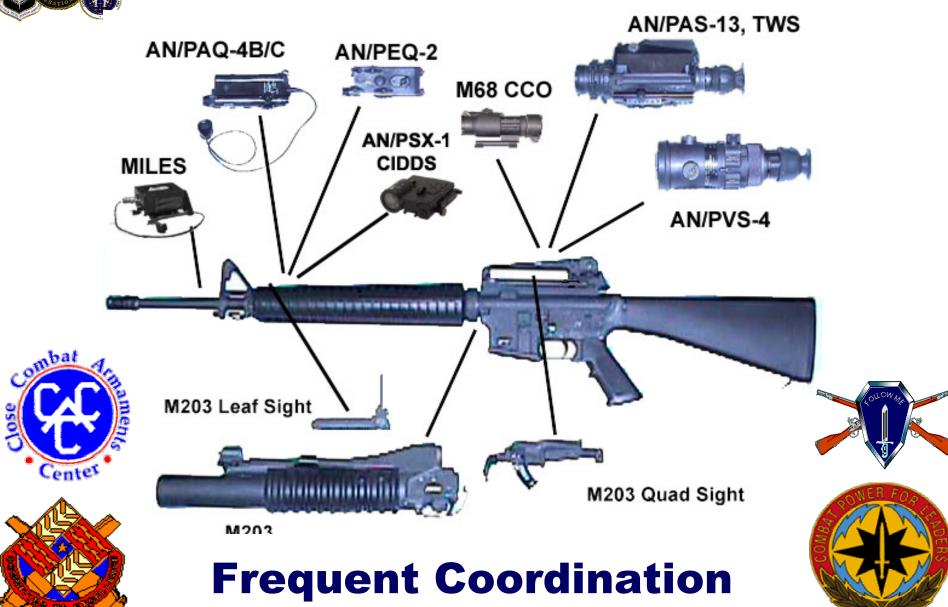


SOPMOD 05-06 MACRO CALENDAR





Army Modular Weapon System (MWS)







NSWC Crane

"Harnessing the Power of Technology for the Warfighter"

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