



# Weapon Shot Counter Program for Small Arms Maintenance



**Data to Enhance Freedom**



# Weapon Shot Counter

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- **Records Shots and Firing Rates for Small Arms**
- **Requires No Operator Input**
- **Battery Life of Five Years**
- **Holds up to 30,000 Rounds**
- **User: U.S. Special Operating Forces (USASOC/WARCOM/AFSOC)**



# Weapon Shot Counter Purpose

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- **Logistics Applications Only**
- **Armorers Able to Monitor Weapon Usage**
- **Enables Preventative Maintenance Program**
- **Minimizes Catastrophic Parts Failures and Malfunctions in Combat**
- **More Cost-Effective...Reliability, & Maintenance**
- **Improves Operator Success in Combat**



# Summary of WSC System



**Shot Counter**



**Data Collection Device (DCD)**



**Email from PC**



**Maintenance Database on Centralized Server**



# Acquisition Top Map



## Existing Systems

## Emerging Systems

## Objective Systems

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

**WEAPON SHOT COUNTERS**

Requirement approved 16 Dec 2004

**SOST Prototypes**



**WSC - Carbine**



**WSC - Machineguns**



**WSC - SCAR**



# Devices





# Program Phases

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## Phase I

**Determine if a Weapon Shot Counter device is technologically feasible, and producible.**

**Objective completed. Two Vendors delivered successful technology demonstrator prototypes.**



# Program Phases

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## Phase II

- 1. Validate the requirement**
- 2. First Article Production / Testing**
- 3. Develop Basic Reporting / Collecting Process**
- 4. MS-C Package / Production Delivery Order**
- 5. WSC prototypes for MK46, MK48**





# Program Phases

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## Phase III

- 1. Issue to selected field units**
- 2. Further Develop Armorer-Depot Maint Software**
- 3. Refine ammunition usage rates**
- 4. Establish Maintenance Profiles for SOF Weapons**
- 5. Full Rate Production for M4A1, MK46, & MK48**



# Program Phases

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## Phase IV

- 1. Preventative Maintenance Management**
- 2. Sustain the system**
- 3. Adapt the WSC Program to the SOF Combat Assault Rifle**



# Shot Counter Issues

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## Challenges:

- **Minimize Work Load—Transparent to Operator**
- **Simple Process—Computer Compatibility**
- **Trust of the Program—Fail Safes**
- **Participation—Based on Good Practices Not Control**
- **Has to Make the Operator's Job Easier, Not Harder!**



*A call from the operating forces is not  
a disruption of our daily routine.*



**WE'RE AT WAR**



**ARE YOU DOING  
ALL YOU CAN?**