



MARSOC

AUTOMATED ARMORY

Secure, Accurate, and Zero-Signature Inventory Management for Serialized Ground Ordnance items

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BACKGROUND

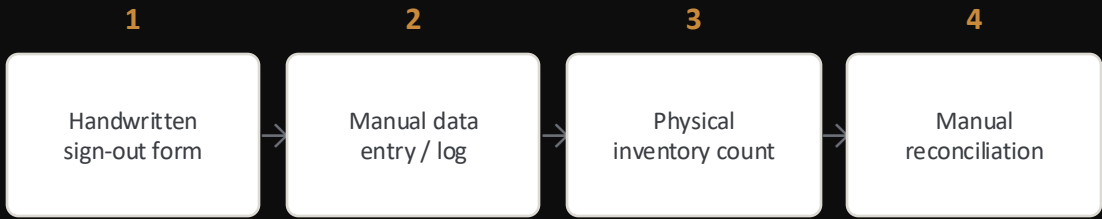
-MARSOC armories manage thousands of serialized weapons, optics, lasers, and night vision devices that routinely transfer custody among operators, maintenance activities, and storage locations. Current accountability processes rely heavily on manual inventories, handwritten forms, repetitive data entry, and multiple independent records. These processes are labor intensive, susceptible to human error, and consume significant man-hours while increasing accountability risk.

-MARSOC seeks commercially available technologies or innovative solutions capable of digitizing armory operations while remaining compatible with existing accountability requirements. Desired capabilities include secure Common Access Card (CAC-enabled user) authentication, automated equipment issue and recovery, inventory tracking, documentation, audit logging, equipment location management, and integrated scanning technologies that reduce administrative burden without compromising accountability.

KEY CHALLENGES

- Labor-intensive, repetitive data entry in Excel
- Highly susceptible to human error
- Multiple independent, disconnected records
- Slows audit readiness and accountability

CURRENT WORKFLOW



Four disconnected, manual steps — no shared digital record between them.

OPERATIONAL IMPACT

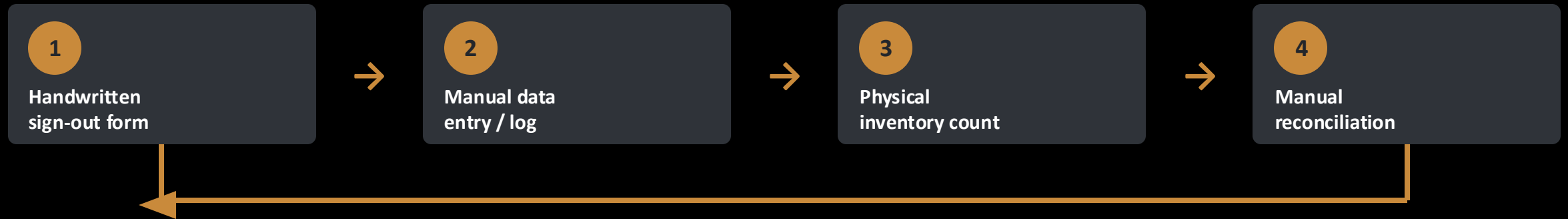


THE DAILY HEADACHE

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Thousands of Serialized Assets Counted by Hand — Every Single Day

MANUAL. REPETITIVE. NEVER-ENDING.



REPEAT — EVERY SHIFT. EVERY DAY.

Every one of the thousands of serialized weapons, optics, and NVGs in the armory goes through this same loop — every single day.

1000s

serialized items tracked

4

manual steps per transfer

0

real-time visibility

Labor-intensive • Error-prone • Audit-delayed • Zero electronic signature allowed

THE PHYSICAL REALITY

Typical MARSOC Armory Rack Systems — This Is What We Count Every Day

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Every rifle, optic, laser, and NVG in these racks (and hundreds more like them across MARSOC) must be physically counted, visually verified, and logged by hand — every single day. One cabinet = dozens of serialized items. Force-wide = thousands. No RFID. No Bluetooth. No radiating transmitters. Just visual accountability.

Desired End State

A secure, zero-signature automated armory that verifies and logs every item by sight alone — no RFID, Bluetooth, or radiating transmitters.

- **Passive, optical-only tracking**

Computer vision and image recognition verify and log weapons and gear as they enter or exit — no active RF signature.

- **CAC-enabled digital custody**

Secure authentication drives automated equipment issue and recovery, replacing handwritten sign-out sheets.

- **Real-time inventory & audit logging**

Location tracking and documentation happen automatically, always keeping the armory audit-ready.

- **Zero compromise on accountability**

Absolute property accountability is guaranteed without exposing the facility to electronic detection.