



AUTOMATED MOVEMENT AND
IDENTIFICATION SOLUTIONS

AIT Initiatives Overview

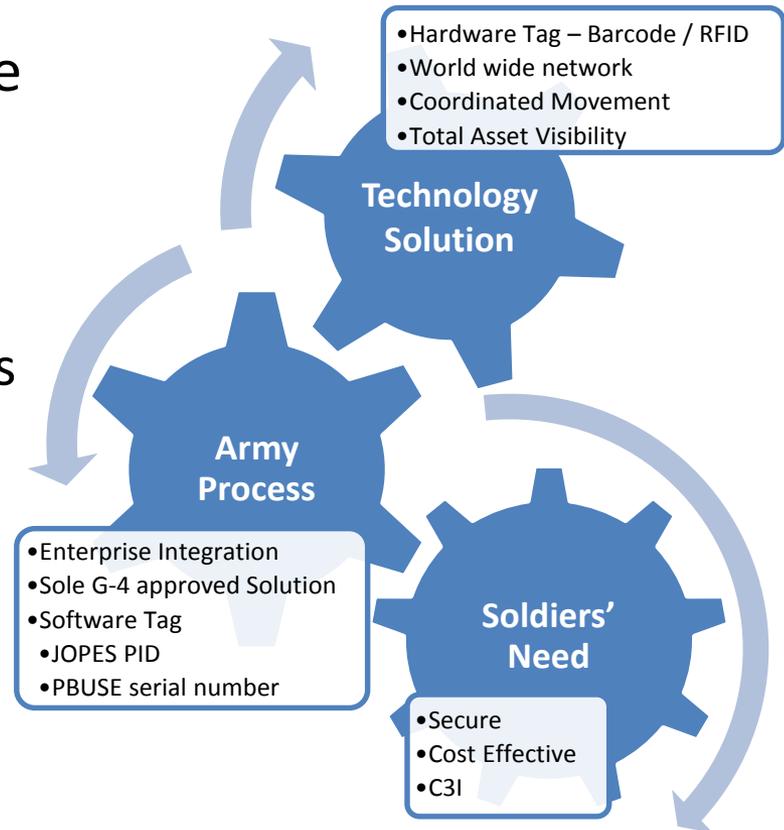
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October 2015



Introduction

- AMIS is comprised of multiple systems and capabilities that require a detailed examination for redundancy and future relevance
 - Uncertain program budgets
 - Changing global mission requirements
 - Inclusion in the enterprise family of systems
 - Web-based architectures that stress mobility and agility
- All spur the effort to leverage organizational efficiencies in our systems, staffs and contract support



Agenda

- Who we are
- What we do
- Force projection and readiness
- AIT Initiatives - why and how
- Contact us




Who We Are

- Asset identification solutions (link to tactical, strategic physical assets)
- Asset tracking solutions – RF-ITV / TC-AIMS II
- Acquisition solutions (IDIQ contracts)



What We Do

- Solve practical AIT problems
- Provide service/subject matter expertise and solution design support
- Asset identification (link to the tactical and strategic physical assets)
 - Condition Based Maintenance - Store and Forward (CBM+ SaF)
 - Passive RFID (pRFID)
 - Item Unique Identification (IUID)
 - Digital Inventory Management
 - Arlington National Cemetery



Conditioned Based Maintenance Plus – Store and Forward (CMB+ SaF)



- CBM+ is an effective, cost-avoidance maintenance methodology
- Can be of significant value to fleet managers who are required to maintain high levels of readiness and operations tempo
- In July 2014, Program Executive Officer, Enterprise Information Systems (PEO EIS) was designated the lead PEO
 - To conduct an analysis to determine the most effective alternative for providing CBM+ SaF capabilities within Army Brigade Combat Teams
 - To connect vehicle health and usage data within the enterprise
- With guidance from PM AESIP, the AMIS Team has seized the momentum to solve the CBM+ SaF gap in collaboration with key stakeholders
 - Army Materiel Command (AMC)
 - Army G-4
 - Combined Arms Support Command (CASCOM)



Key Points for CBM+ End-to-End Capability

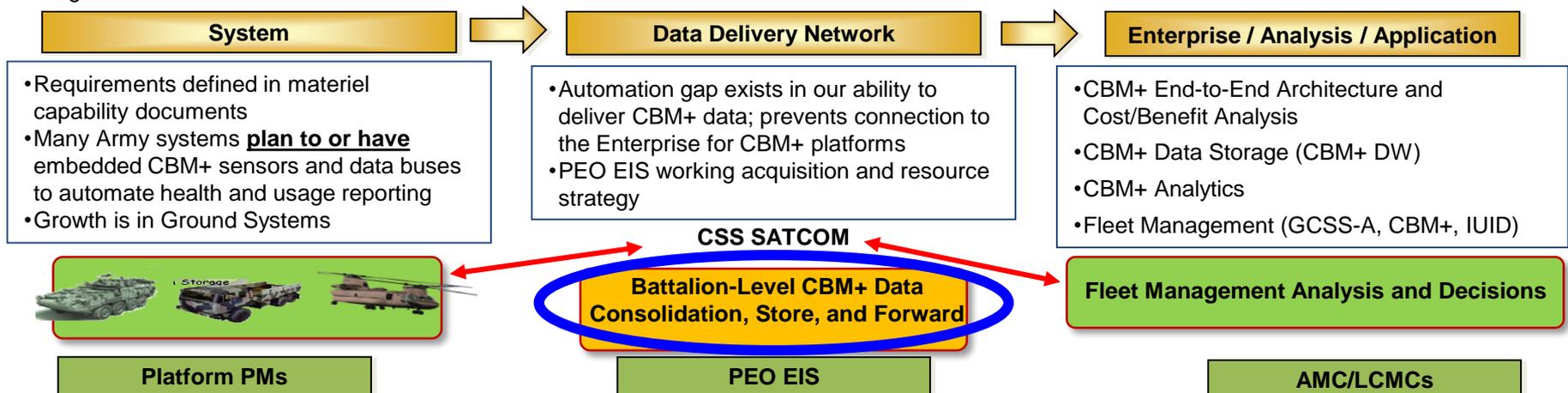
- CBM+ is a key enabler that increases weapon systems availability and reliability and reduces safety risks
- CBM+ reduces overall lifecycle ownership cost & logistics footprint
- CBM+ investments and capabilities currently exist on many of our major Aviation and Combat Platforms (Legacy and Development)
- CBM+ benefits support fleet management processes and enable making best value investments to reduce program O&S costs and improve equipment readiness
- Minor investments needed to achieve the last tactical mile – enable “store and forward” (SaF) data capability into our network to enable End-to-End CBM+ process

Current Status of CBM+ SaF

- **Problem Statement:** Signed by BG Haley (Chief of Ordnance) on 4 Feb 2015; CASCOM staffing through G-4, ABC, and OBT for final approval
- **End-to-End CBM+ CONOPS:** CASCOM is updating; final due Apr 2015
- **Decision Memorandum:** Being reviewed by PEO EIS
- **Course of Action (COA) Analysis:** Initial assessment is that COA #3 (JDMS and MDS/DOE provides SaF functionality) is the most favorable COA and it reflects requirements in draft CONOPS; future effort to refine architecture (based on final CONOPS)
- **Funding:** No funding allocated to continue COA analysis of possible technical solutions to fill SaF gap; seeking FY15-16 UFR and FY17-21 POM submission
- **Acquisition Process:** Keeping constant contact with ASA(ALT) to ensure that all required acquisition documentation is completed (CBM+ SaF is being pursued as Program of Record)

End-to-End Process and Capability Gap

CBM+ SaF is the data transmission gap for *actionable* (what a maintainer must do immediately) and *non-actionable* fleet management data that is collected via installed sensors throughout the ground fleet. Currently, no automated way to move data off platform, store, or transmit to the data warehouse for fleet management.



The CBM+ End-to-End capability to report sensor data is solved by the SaF solution!

AMIS' Role in Passive RFID (pRFID)



- OSD mandated migration of specific supply chain applications to pRFID
- USTRANSCOM implementation plan directs each Service to conduct initial implementation projects using the primary AIT called out in the DOD AIT Implementation Plan
- AMIS' pRFID use case demonstration at the Fort Bragg Installation Supply Support Activity (ISSA) receipted supplies from 2009-12.
 - Leveraged value of the Defense Logistics Agency Transaction Services Advance Shipping Notifications (ASNs) with pRFID
 - Processed receipt transactions to the Standard Army Retail Supply System (SARSS), the Army's accountable system of record
 - Showed processing time could be reduced without loss of accuracy
 - Stood down with the fielding of the Global Combat Support System – Army (GCSS-A) to the ISSA

U.S. Army Heritage and Education Center (USAHEC) Carlisle, Pennsylvania



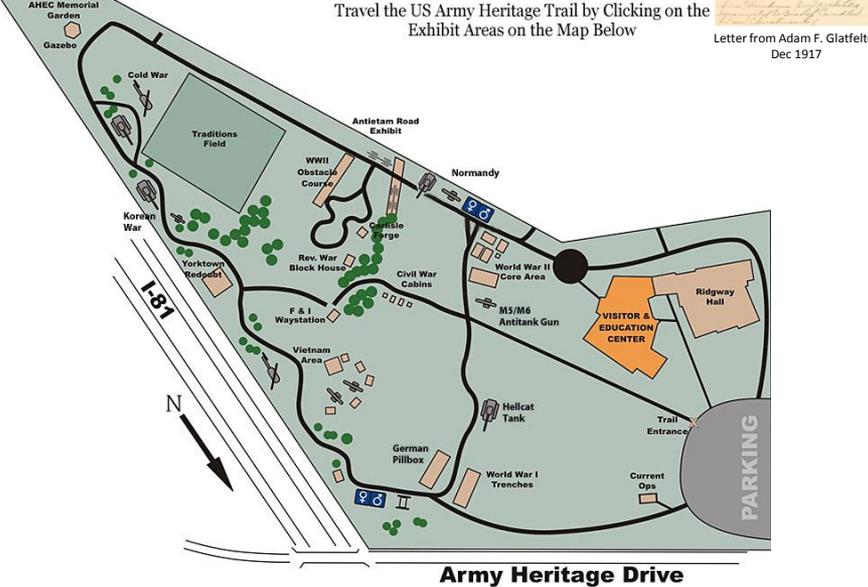
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TELLING THE ARMY STORY... ONE SOLDIER AT A TIME®



Travel the US Army Heritage Trail by Clicking on the Exhibit Areas on the Map Below



Letter from Adam F. Glatfelter
Dec 1917

Map Labels: AHEC Memorial Garden, Gazebo, Cold War, Traditions Field, Antietam Road Exhibit, Normandy, WWII Obstacle Course, Korean War, Yorktown Redoubt, F & I Waystation, Vietnam Area, German Pillbox, World War I Trenches, Helicat Tank, World War II Core Area, M5/M6 Antitank Gun, Visitor & Education Center, Ridgway Hall, Trail Entrance, Current Ops, Parking, Army Heritage Drive, I-81, N

AMIS Role

Support requested by the USAHEC Director

- Seeking an automated inventory management capability using automatic identification technology
- Massive library environment covering several acres in a modern, still growing facility
 - Over 11 billion artifacts, large and small
 - Manual storage and retrieval
 - Millions of items not catalogued
 - Items are easily misplaced
 - Staff dedicated to replacing items
- Our SME are providing advice and assistance
- Developed a PWS

Artifacts to be tracked are papers, maps, paintings, individual and crew served weapons, uniforms, and insignia; anything and everything military!

AMIS' Role in IUID



- Specified responsibilities in AR 70-1 and AR 700-145
- Maintain a high level of IUID technical and programmatic expertise
- Provide AIT products and services that support DOD IUID programs
- Educate Army Stakeholders
- Initiate path- finding IUID applications, such as: 
- Provide IUID technical assistance and advice to Army customers. Some examples:

IUID-enabled
Digital Arms Room



Aviation Life Spt Equipment
Management System



IUID Direct Part Mark Readability
Issues



Reviewing (450+) IUID
Implementation Plans



SME for LOGSA's IUID Plan
Generation Program



Working Army IUID Quality
Issues with DCMA

AMIS and its predecessor J-AIT have been involved in IUID since IUID was initiated in July 2003

Digital Inventory Management

- Digital Arms Rooms (ARMS and SmarTrack); Tool Room Management System (TRMS); and Aviation Life Support Equipment (ALSE) System
 - HQDA ALARACT Messages authorize field procurement and sustainment
 - IUID marking and registration required for items meeting IUID criteria
 - We are a designated channel to the procurement source and provide SME assistance
 - SmarTrack is a COTS product on AMIS IDIQ Contracts
 - ARMS/TRMS/ALSE are AMRDEC GOTS solutions
- All are interim capabilities pending incorporation of their functionality in the enterprise system



Arlington National Cemetery (ANC)

... family members asked that her husband's grave site be opened despite assurances. When they did, cemetery officials found that one grave site was empty, another contained a set of remains that didn't match the headstone and another had two sets of remains, only one of which jibed with the headstone. The mix-ups have since been remedied.



Arlington National Cemetery finds more mismarked graves

From Jennifer Rizzo, CNN
September 17, 2010, 1:27 AM EDT



Army investigating 8 sets of remains buried in single gravesite at Arlington

Washington Post Staff Writer December 3, 2010, 12:00 AM

The Army has launched the first criminal investigation into the misplacement of remains at Arlington National Cemetery

AMIS Role

- ANC Leadership requested our support
- Accurately frame the issues and offer solutions
- Provide technical advice and assistance
- Help determine suitable vendors and technologies
 - Assist in writing or reviewing the PWS or SOO
 - Evaluate recommended hardware products and Automatic Identification Technologies (AIT) including magnetic devices
 - Establish required products on AMIS contract vehicles
 - Stay engaged with the ANC program manager as necessary

Senate bill calls for every grave at Arlington cemetery to be accounted for

The secretary of the Army would have to provide Congress with a full accounting of all of the more than 320,000 grave sites at Arlington National Cemetery under a Senate bill.

How and Why

- Technology – AIT
 - Features
 - Uses
 - Benefits
- Big data / data mining
 - Purpose of data – to manage the supply chain
 - Purpose of AMIS AIT Initiatives
 - Data identification and tracking solutions
- Challenges
 - Cost, schedule, performance

Soldier capability at best value...

Contact Us

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