



OPTIMIZING THE SUPPORT OF DOD WEAPONS AND EQUIPMENT



DoD Maintenance Symposium
Nov 2007



CALL TO DUTY
BOOTS ON THE GROUND

Unclassified

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AGENDA

- **Transforming the Army**
- **Changes in Logistics**
- **Maintenance Support for ARFORGEN**
- **Logistics Automation Transformation**
- **360° Logistics Readiness**
- **Continuous Process Improvement**

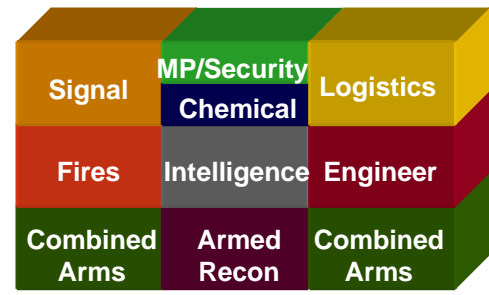




Transformation The Army Modular Force



Headquarter(s) & Command Posts



... and modular multi-functional Support Brigades

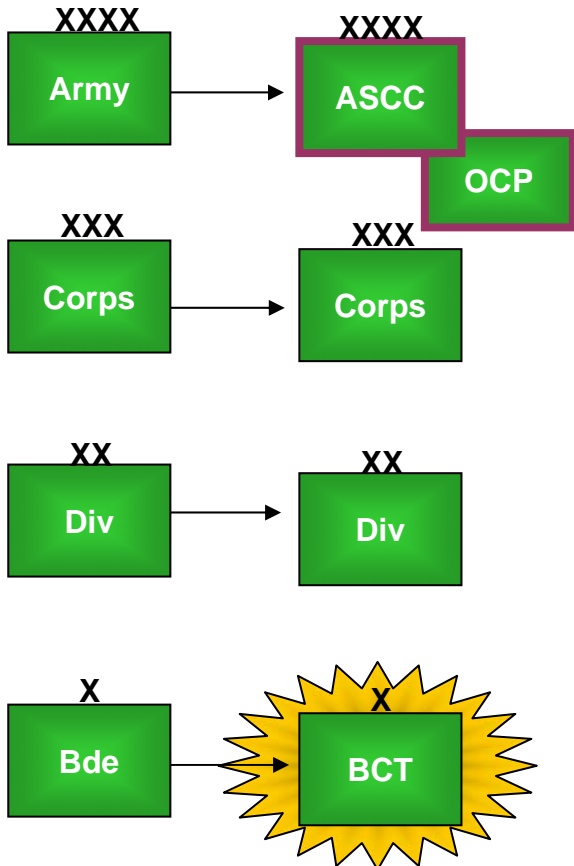


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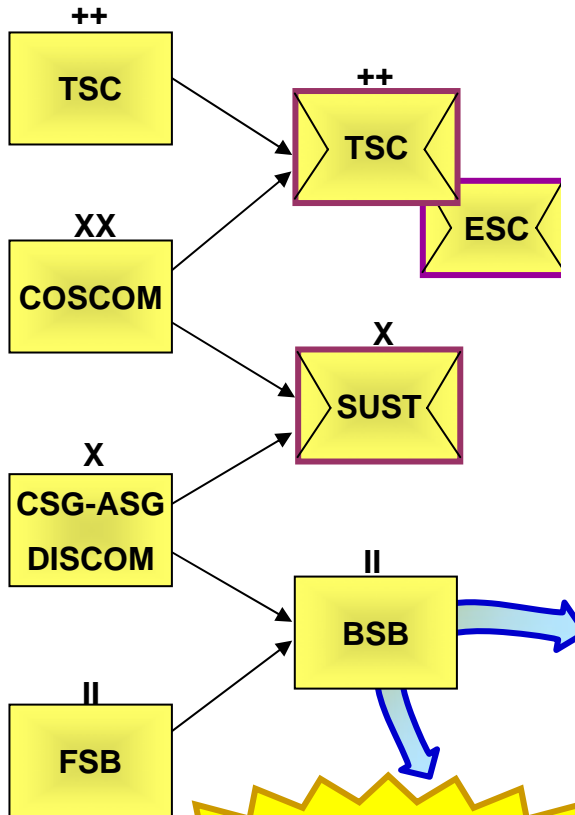
Transformation The New Look

OPERATIONS



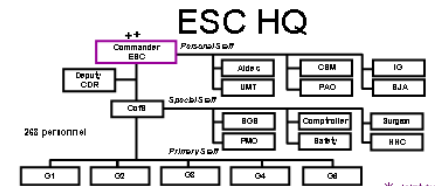
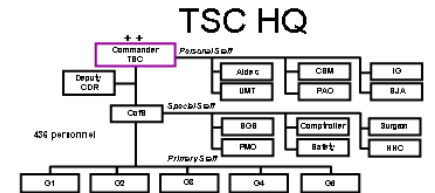
Note: Includes all Active and Reserve Components

LOGISTICS

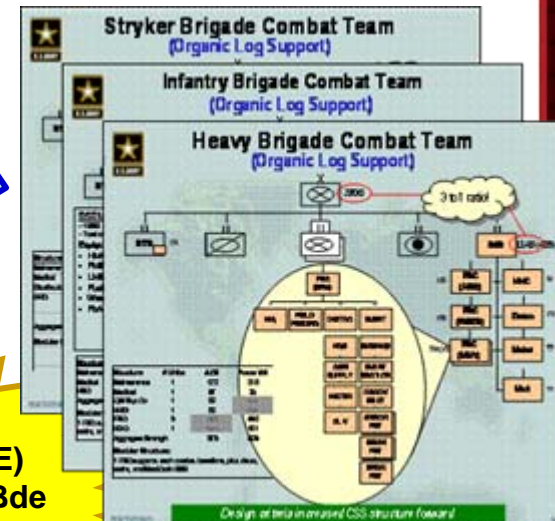


Support Bdes

- Combat Support Bde (ME)
- Battlefield Surveillance Bde
- Fires Bde
- Combat Aviation Bde



* Joint Augmentation Required

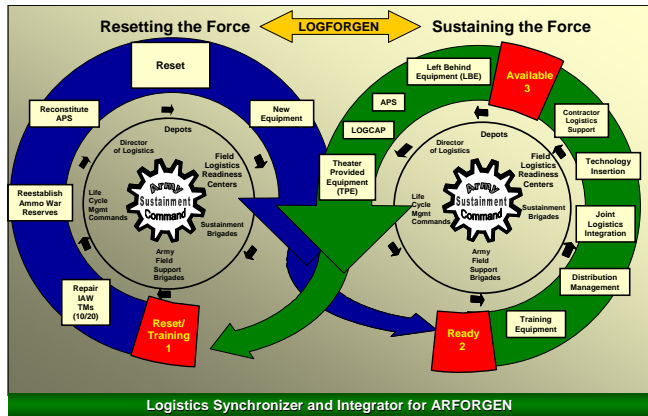


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Army Maintenance in Support of ARFORGEN

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AMC Management

Brigade Equipment

- **Repair Requirements**
 - National
 - Local
 - Unit
 - **Resource Allocation**
 - **Workload Allocation / Balancing**
 - **Enforcer of:**
 - Common and Consistent Standards
- UNIT EQUIPMENT FROM IRAQ / AFGHANISTAN / EUROPE / KOREA**

LEFT BEHIND EQUIPMENT

Program Manager

- OEM
- RESET
- Configuration Management
- Procurement

Depots / Nat Maint Contractors Repair

- RECAP
- Automatic Return Items
- Major Overhaul

DOL Repair

- Below Depot Repair
- Repair and Return
- Special Repair Authority

FLRC Repair

- Augments DOL's
- Flexible Size and Mission

MATES / UTES Repair

- Primarily Field Level
- Reimbursable

Unit Repair

Rebuilt Brigade
TRADOC Training Fleet

ALL TO DUTY

U.S. ARMY BOOTS ON THE GROUND

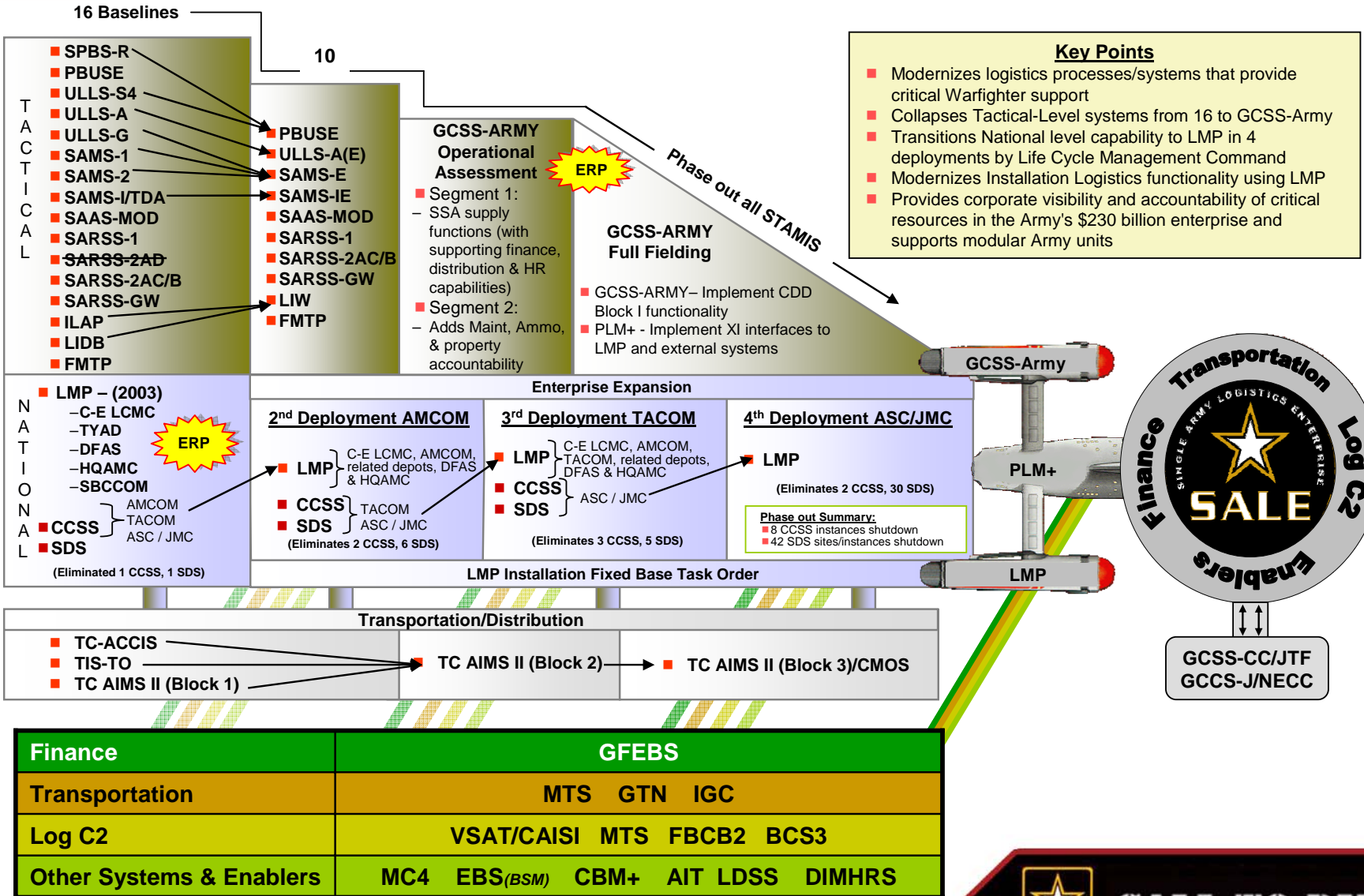
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Army Logistics Automation Transition Plan

Path to One Single Army Logistics Enterprise (SALE)

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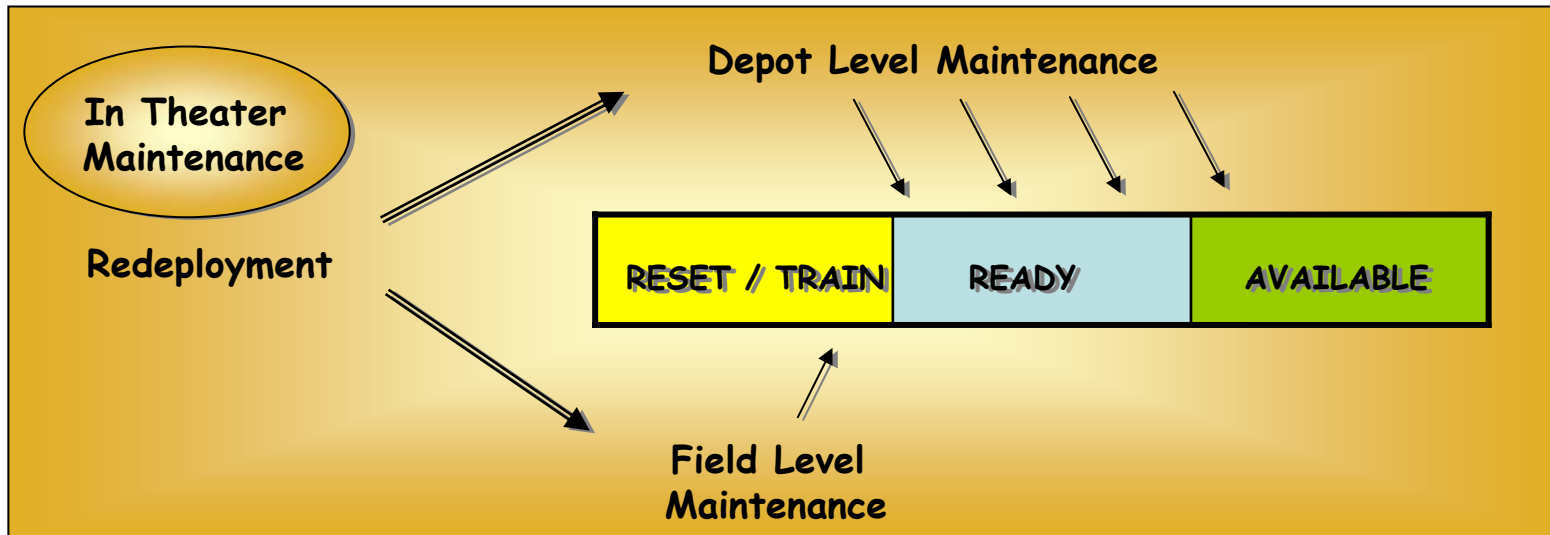


Continuous Process Improvement

Improved visibility \Longrightarrow Data-informed Investment Decisions

360 DEGREE READINESS INITIATIVE

SYNCHRONIZING ALL MAJOR PROCESSES IN THE END-TO-END WEAPON SYSTEM VALUE CHAIN AND ALIGNING THE PRODUCTIVE OUTPUT WITH THE WARFIGHTER'S REQUIREMENTS.





360° Logistics Readiness

Definition: 360° Logistics Readiness is the capability to see, assess, and synchronize the Army's Corporate Enterprise Assets in support of Warfighting Operating Forces.

"360° Logistics Readiness - Synchronizing Materiel Readiness to Generate and Sustain Combat Power"



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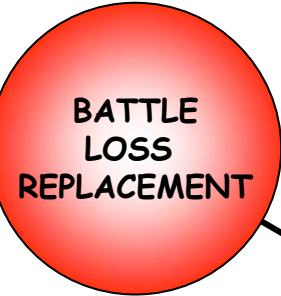
360° Degree Readiness (CL VII)

Objectives:

- Is the equipment where it needs to be and serviceable to meet the mission?
- Is the sustaining base resourced and prioritized correctly?
- Is the sustaining base performing as planned to support the National Military Strategy, ARFORGEN, and Grow the Army requirements?

Drill Down: (Leading) Planned Production

- Avail. "A" and "F" stocks for RESET and Redistribution



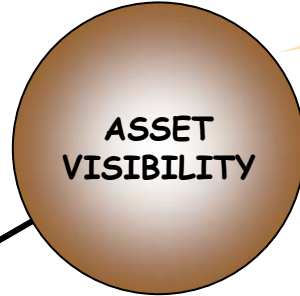
Drill Down: (Lagging) f(Time)

- Battle Loss to Attrition and subsequent replacement



Drill Down: (Lagging) USR Data

- Validation of Performance



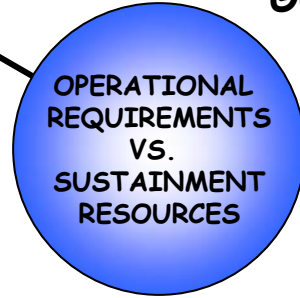
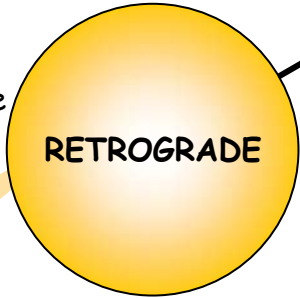
Drill Down: (Lagging) Visibility

- % Prop Accountability
- % Asset Visibility



Operating Force

Generating Force



Drill Down: (Leading) Requirements:

- ARFORGEN
- Battle Damage/ Loss
- Grow the Army

Sustaining Base

- Industrial Base - SS PEG Depot/Contractors
- RESET
- Acquisition - EE PEG Production Schedule



Drill Down: (Lagging) Planned vs. Actual Year of Execution

Goal: The capability to see, assess, and synchronize the Army's Corporate Enterprise Assets in support of Warfighting Operating Forces.



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Continuous Process Improvement

2007 SHINGO PRIZE FOR EXCELLENCE IN MANUFACTURING

"The Nobel Prize of Manufacturing"

Red River Army Depot

High Mobility Multipurpose Wheeled Vehicle Recap (Gold)

- Increased production from 3 vehicles per month in 2004 to 32 vehicles per day
- Produced 65 additional vehicles at no additional cost in FY06
- Cost avoidance of \$3.89M



Bradley Power-train (Silver)

- Reduced man-hours from 56.5 to 32.5 per unit
- Increased output from 2 units to 6 units per day
- Reduced lead time from 7 days to 3 days per unit

Heavy Expanded Mobility Tactical Truck (Silver)

- Productivity improved from 1530 hrs per vehicle to 1011 hrs per vehicle
- Increased output from 2 vehicles per week to 2 vehicles per day
- Decreased lead time from 120 days to 30 days

Ft Rucker Avn Ctr Logistics Cmd

TH-67 Creek C20J Engines (Bronze)

- Reduced cycle lead time from 294 to 213 hours
- Reduced shop backlog from 30 engines to 0
- Reduced engines faults from 105 to 72



Anniston Army Depot

Field Artillery Ammunition Support Vehicle (Silver)

- Increased total units produced from 52 to 88
- Decreased overtime hours by 99.4 hrs to 59.52 hrs
- Decreased direct labor hours from 341 to 294 hrs

M1 Abrams Turbine Engines (Bronze)

- Reduced assembly time from 364 to 232 minutes
- Consistent 100% on-time delivery
- Cost Savings of \$18.4M



Tobyhanna Army Depot

AN/TPQ-36 Firefinder Antenna (Gold)



- Reduced Repair Cycle Time from 514 to 429 days
- Reduced Work In Process from 16 to 11
- Increased production from 1 to 15 systems

Corpus Christi Army Depot

H-60 Pavehawk (Bronze)

- Reduced Turn Around Time from 180 to 109 days
- Reduced direct labor hours by 3,324/aircraft
- Reduced the per unit loss from \$490k to \$133k



Letterkenny Army Depot

High-Mobility Multipurpose Wheeled Vehicle Recap (Silver)

- Increased throughput to 17 vehicles per day
- Reduced direct labor hours from 274 to 150
- Produced 27 additional vehicles at no additional cost, a \$5.2M customer benefit.

Power Generators (Bronze)

- Increased output from 118 to 500 per month
- Labor savings since April 2006 is 83,349 man hours and \$2.9M



Rock Island Arsenal

Forward Repair System (Gold)

- Reduced Flow Time from 265 to 62 days
- Reduced Work In Process from 32 to 13 units
- Cost savings/avoidance of \$4.8 M



Shop Equipment Contact Maintenance (Silver)

- Reduced flow time from 82 to 41 days
- Reduced work in process from 40 to 15 units
- Cost Savings/Avoidance of \$4.9M

17 Shingo Awards earned by Army programs since 2005 when extended to Public Sector



The Depots Answering The Call

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One Thing Remains Constant



**The Soldier -
the Centerpiece of the Army**
Living the Warrior Ethos -
on duty protecting the Nation
and the society they serve.

For all that
YOU do for
our Soldiers...

Thank You!!



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Back-up

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Forward Repair Activities

(Current – Not Emerging Capabilities)

Ground Equipment

- TACOM Forward Repair Activities - Kuwait
 - 50 CIVs from our Depots & Arsenals
 - Component repairs
- Team Armor Partnership supports M1A2SEP and M2A3 peculiar components - Balad
- Tactical Wheeled Vehicle Support Center
 - 2 CIVs and 151 contractors at Balad
 - Repairs & services for tactical vehicles, CE and MHE; AoA & Veh Enhancements
- TWV Refurbishment Centers Arifjan, Kuwait
- (Light, Medium, Heavy, and Linehaul trucks)
- Small Arms Supt Ctr – Balad, BIAP & Bagram
- STRYKER FRA Iraq & Qatar (PM Funded)
- TACOM Reset Assessment Team
- Tire Assembly Repair Programs - Qatar, Kuwait, Iraq & Afghanistan
- REF/COTS, RCV, & Robotics support – AF & IQ
- Mobile Parts Hospitals – Ku, IQ, AF



Aviation



- Aviation Classification Repair Activity Depot (227 Mil/ 159 Ktrs) ARNG unit subject to DUALT time.
- Theater Aviation Supply Support Activity (11 contractors)
- Mast Mounted Sight / EETF for OH58D (3 contractors)
- Theater Aviation Single Manager (40 Mil/CIVs/contractors)



Communications/ Electronics

- Electronic Sustainment Support Ctrs
 - ~550 CIVs & contractors in Afghanistan, Kuwait and Iraq
- Tobyhanna FRAs - Supports STAMIS, TIER II, CGS and Fire Finder – IQ/AF
- Intelligence Electronic Warfare Supports Tactical IEW and selected PM systems- KU/IQ/AF
- Mobile Subscriber Equipment - Supports & CHS-II – Baghdad
- Software Engineering Center - Provides software technical support at Arifjan (for Paladin, M1SEP, FOX, etc)
- Tactical Generator Environment Control Unit FRA – Arifjan
- SINCGARS Circuit Card Ctr - Arifjan



Providing Strategic Value by Leveraging the National Industrial Base; Essential to Maintaining Operational Tempo – Key to Executing Reset Strategy

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Army Logistics Automation Transition Plan

Acronym Listing

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AIT	Automatic Identification Technology	MC4	Medical Communications for Combat Casualty Care
AMCOM	Aviation and Missile Command	MTS	Movement Tracking System
ASC	Army Sustainment Command	NECC	Net-Enabled Command Capability
BCSS3	Battle Command Sustainment Support System	PBUSE	Property Book Unit Supply Enhanced
C2	Command and Control	PLM+	Product Lifecycle Management Plus
CAISI	Combat Service Support Automated Information Systems Interface	SAAS-MOD	Standard Army Ammunition System Modernization
CBM+	Condition-Based Maintenance	SALE	Single Army Logistics Enterprise
CCSS	Commodity Command Standard System	SAMS-1	Standard Army Maintenance System - 1
CDD	Capability Development Document	SAMS-2	Standard Army Maintenance System - 2
C-E LCMC	Communications-Electronics Lifecycle Management Command	SAMS-E	Standard Army Maintenance System - Enhanced
CMOS	Cargo Movement Operations System	SAMS-IE	Standard Army Maintenance System - Installation Enhanced
DFAS	Defense Finance and Accounting Service	SAMS-I/TDA	Standard Army Maintenance System - Installation/Table of Distribution Allowances
DIMHRS	Defense Integrated Military Human Resources System	SARSS-1	Standard Army Retail Supply System - 1
E2E	End-to-End	SARSS-2AC/B	Standard Army Retail Supply System - 2AC/B (Corps Level)
EBS(BSM)	Enterprise Business System (Business System Modernization)	SARSS-2AD	Standard Army Retail Supply System - 2AD (Partial)
ERP	Enterprise Resource Planning	SARSS-GW	Standard Army Retail Supply System - Gateway
FBCB2	Force XXI Battle Command, Brigade and Below	SDS	Standard Depot System
FMTP	Financial Management Tactical Platform	SPBS-R	Standard Property Book System-Redesign
GCCS-J	Global Command & Control System - Joint	SSA	Supply Support Activity
GCSS-ARMY (F/T)	Global Combat Support system - Army	STAMIS	Standard Army management Information System
GCSS-CC/JTF	Global Combat Support System - Combatant Command/Joint Task Force	TACOM	Tank and Automotive Command
GFEBS	General Fund Enterprise Business System	TC AIMS II	Transportation Coordinators-Automated Information for Movements System II
GTN	Global Transportation Network	TC-ACCIS	Transportation Coordinator Automated Command and Control Information Systems
HQAMC	Headquarters Army Materiel Command	TIS-TO	Transportation Information Systems-Theatre Operations
HR	Human Resources	TYAD	Tobyhanna Army Depot
IGC	Integrated Data Environment/Global Transportation Network Convergence	ULLS-A	Unit Level Logistics System - Aviation
ILAP	Integrated Logistics Analysis Program	ULLS-A(E)	Unit Level Logistics System - Aviation (Enhanced)
JMC	Joint Munitions Command	ULLS-G	Unit Level Logistics System - Ground
LDSS	Logistics Decision Support System	ULLS-S4	Unit Level Logistics System - S4
LIDB	Logistics Integrated Data Base	VSAT	Very Small Aperture Terminal
LIW	Logistics Integrated Warehouse	XI	Exchange Infrastructure
LMP	Logistics Modernization Program		

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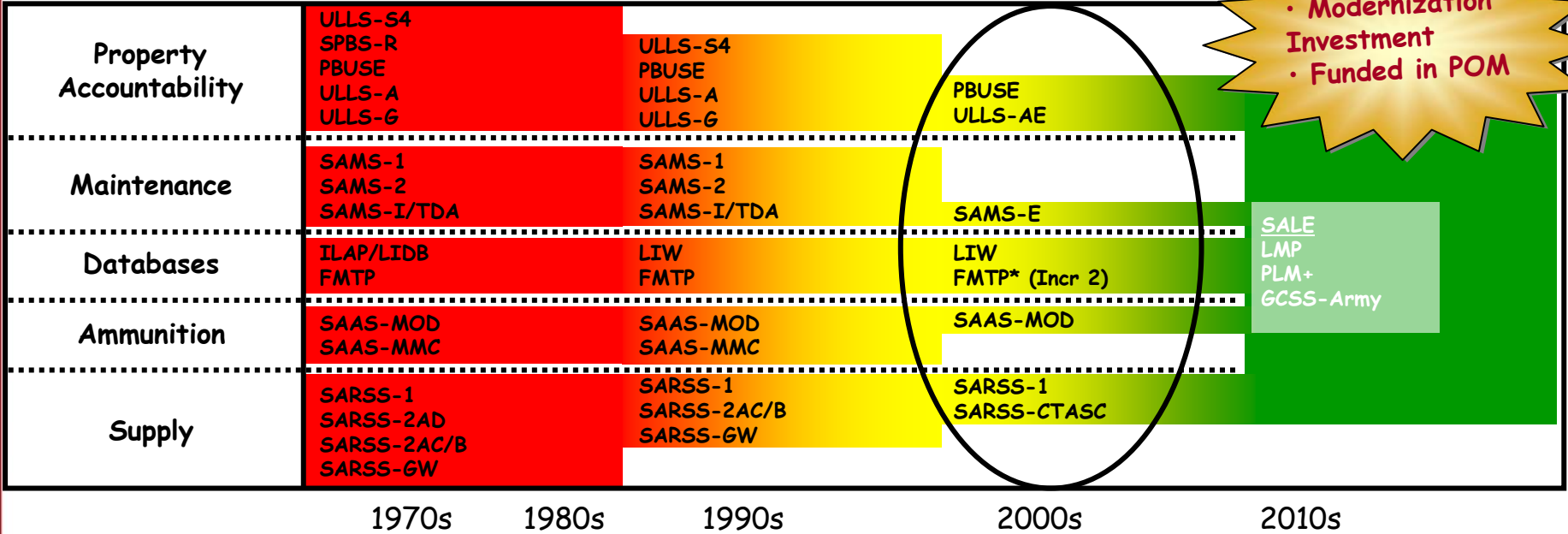


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The Path to a Single Army Logistics Enterprise

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• Modernization Investment
 • Funded in POM

Legacy Systems:

- 16 systems
- Antiquated
- Stovepiped

Bridging Systems:

- PBUSE
 - ♦ Fielded to 100% of TOE Army; 63% to TDA Army
- ULLS-AE
 - ♦ Fielded to 57% of TOE Army (TOE: Completion 2nd QTR, FY09; TDA: Completion End of FY09)
- SAMS-E
 - ♦ Fielded to 35% of TOE Army (TOE: Completion End of FY09)
- TCAIMS II
 - ♦ Fielded to 59% of Current Authorizations (TOE/TDA: Completion End of FY12)
- VSAT
 - ♦ Fielded to 40% of TOE Army (TOE/TDA: Completion End of FY12)

• War-related, Immediate Needs
 • Funded in Supplementals

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