



HOW UNIQUE IDENTIFICATION (UID) FITS INTO ARMY'S SUSTAINMENT ARCHITECTURE

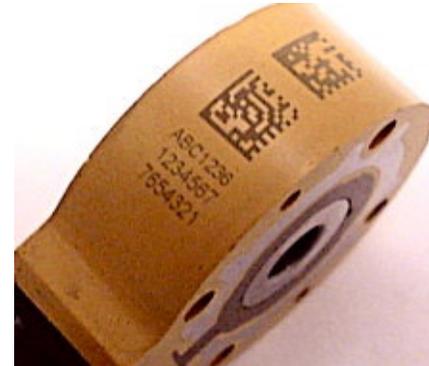


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AGENDA

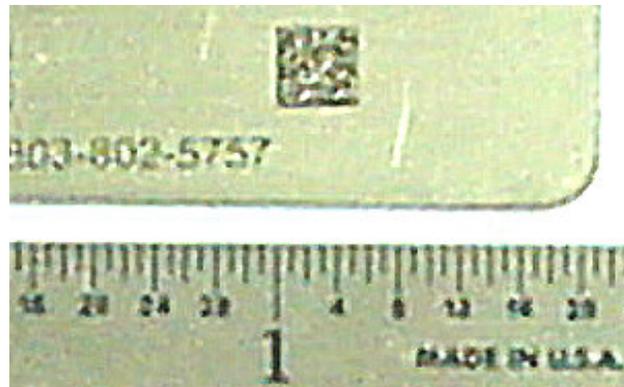
- Purpose
- G-4 Strategy Map
- Army Focus
- Scope of OSD policy
- Draft Army UID Policy
- Applicability of UID to G-4 Focus Areas
- UID Interfaces
- Risks
- Notional Functional Architecture (Aviation)
- Field Reports
- Summary





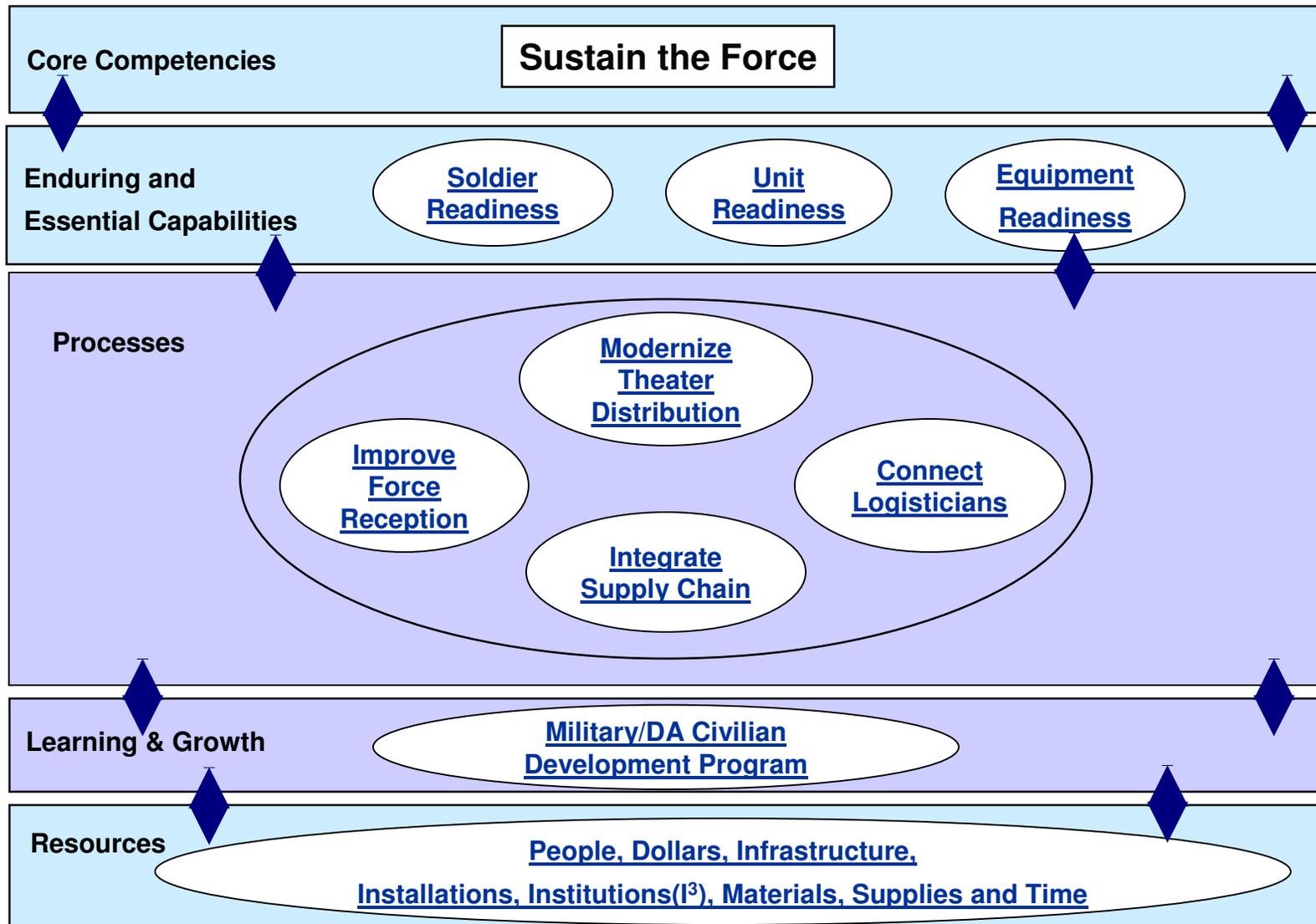
PURPOSE

- To describe how Unique Identification (UID) of tangible items fits into the Army's sustainment architecture
- To identify current status of the UID initiative



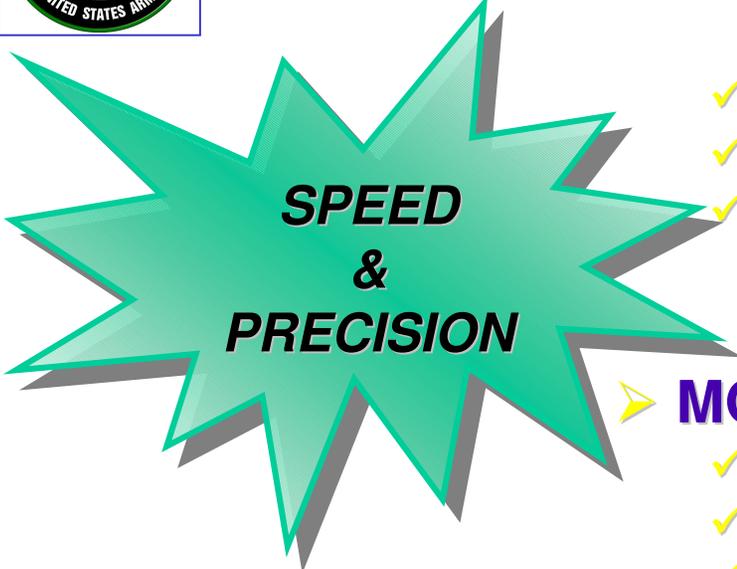


G4 Strategy Map





Army FOCUS



“CONNECT” OUR LOGISTICIANS

- ✓ Agile, Assured, 24 / 7 Data Capability into the Enterprise
- ✓ Plug / Un-plug as Required
- ✓ Enable “Sense and Respond” Logistics
- ✓ Include Log, Per, Med & Eng
(Operational Sustainment)

MODERNIZE THEATER DISTRIBUTION

- ✓ Single Proponent
- ✓ Enable Control With 100% Visibility
- ✓ Single Doctrine, Force Structure & Training

CRITICAL TO SUCCESS

- Our Commitment
- Joint Integration
- Policy Modernization
- Refined Doctrine
- New Force Structure
- Standards and Discipline

IMPROVE FORCE RECEPTION

- ✓ APOD / SPOD; Distribution; Life Support
- ✓ Strategic Connectivity - Theater Log C2 Node
- ✓ Embedded Sustainment Capability
- ✓ Life Support – Division in 5 Days

INTEGRATE THE SUPPLY CHAIN

- ✓ Single Proponent
- ✓ Eliminate Stovepipe Suboptimization

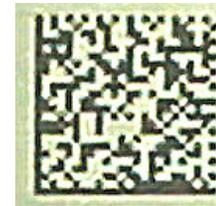
Delivering Materiel Readiness



SCOPE OF OSD UID POLICY

All acquisition, financial, logistics and maintenance actions meeting specified criteria.

- ***New acquisitions**
- ***Repair and rebuild contracts**
- ****Legacy items/GFE/GFM/GFP**
- Sustainment programs
- Transportation
- Retrograde
- Condemnation and disposal actions
- Special Test Equipment
- *** Initial focus**
- ****Future focus**
- Joint programs
- Contractor logistics support (CLS)
- Research and development
- Leases
- Organic weapon system operations
- Foreign Military Sales (FMS)



Within Army, UID potentially affects 38.5 million items worth over \$138 billion.
All army communities and classes of supply are affected...No exceptions.



DRAFT ARMY UID POLICY

- Fully supports current OSD policy and provides additional guidance.
- Applicable to Total Army (active, reserve, and national guard).
- Current draft distributed to over 35 major headquarters, e.g., AMC, and field commands in April 2004. Final draft will be issued after OSD issues final policy statement.
- UID policy aligns Army acquisition, maintenance, financial and logistics processes (and associated AIS) to meet the requirements of OSD policy and the Chief Financial Officers Act of 1990 (Public Law 101-576).
- UID requirements will be included in Common Logistics Operating Environment (CLOE) and Single Army Logistics Enterprise (SALE) requirements.
- Recommends initial candidates for marking, e.g., items with existing nameplates, critical safety items.
- Platform metrics to be developed by each Program or Product manager.
- Organic and Acquisition metrics to be developed by individual Depot and Acquisition Proponents.
- Does not create Army UID Program Office.



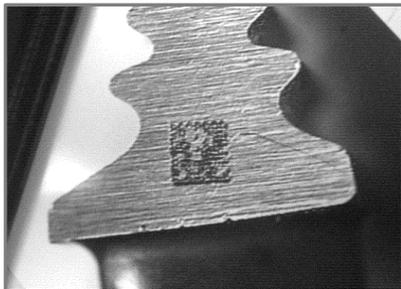
APPLICABILITY OF UID TO G-4 FOCUS AREAS

Connect Army Logisticians

- Promotes development of software and data links used to track material.

Modernize Theater Distribution

- Integrated transport and movement of individually serialized items, e.g., Targeted sparing to individual units; Reallocation of material on a real-time basis.



Improve Force Reception

- No immediate impact on rapid and precise time-definite delivery.
- Immediate benefits to transportation planning, Army Pre-positioned Stock and disposal actions.

Integrate the Supply Chain

- Acquisition.
- Force Structure Support.
- Inventory Management.
- Managing End Items.



UID INTERFACES

	Data	Structures	Media	AIS
	EID	UID	RFID	ERP
	DOD UID Model			
	Part	EPC	Bar codes	SALE
	EPC System			
	Serial	UPC	Contact Memory	EPC network
	ISO Standardization			
	Other data	Other	2D Symbols	Other systems



RISKS

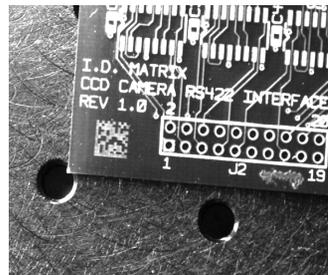
- Scope of policy is expanding. No published IT architecture exists that conceptualizes how all forms of AIT will be integrated.
- Networks unable to support UID at present.
- UID is an open ended, unfunded commitment.
- UID and passive RFID require new hardware, software and new standards.
- Uncoordinated, independent actions by Program Executive Officers or Major Subordinate Commands will jeopardize data interoperability and equipment standardization.
- Virtual UID concept requires close government and industry collaboration.
- Legacy data and unique Army processes must be synchronized to to Wide Area Workflow (WAWF) program schedule.
- Requirements must be understood and incorporated into the Single Army Logistics Enterprise (SALE) and reflect “best commercial practices”.
- UID affects price for systems and parts.
- Unconstrained proliferation of marking systems will complicate quality control, add to cost, and complicate training requirements.
- Process to resolve warranty claims related to non-compliant UID marks needs greater clarity.

Logistics resources should not be spent on UID initiatives without appropriate coordination across the Army logistics community



NOTIONAL FUNCTIONAL ARCHITECTURE (AVIATION)

Advanced Forecasting & Planning								Maintenance Cost Analysis						
Inventory Control								Cost-to-Repair	Reliability Data					
Configuration Model	Composition Control	Purchasing	Parts Tracking	Scrap Parts	Unapproved Parts	Warranty	Exchange Parts		Loan/Borrow	Shop Tear Down Report	Line Removal Data	Schedule Interruption Data	Pilot, Cabin, & Maint. Log	Flight Hours & Landings
	Part Traceability													
	Permanent Bar Code Identification of Parts													



Jon Andresen, Chair,
Bar Code Taskforce
22 December 1999



FIELD REPORTS

- **Primary risks are to contract cost and schedule - particularly critical in the case of spares.**
- **Suppliers reluctant to propose on solicitations or sign contracts under interim UID rule.**
- **Tech data packages defining where and how mark is to be applied often not available. This makes pricing difficult and increases contractor risk.**
- **Some foreign governments have rejected UID marking because added cost not previously negotiated. Many items purchased never enter U.S. inventory.**
- **Ability to grant waivers and exemptions highly desirable.**
- **Need boilerplate contract language detailing bar code verification requirement (where performed) and/or warranty of the mark (if supplier operates the design activity).**
- **MILSTD 130 seems contradictory to other provisions and standards.**
- **Government and commercial outreach programs needed to institutionalize UID.**
- **Senior Army leadership extremely supportive. Collaborative and cooperative effort underway.**



UID - THE WAY AHEAD

SHORT TERM – HQDA G4

Policy Formulation

- UID Goes Live JAN 1, 2004
- Preliminary Draft Policy FEB 2004

Field Review of Preliminary Policy

- Depot Impact Assessment FEB 2004 (OSD)
- Field Comments (8 week review)
- Interim Guidance (4 weeks after comments rec'd)
- Final AIT POM Requirements APR 2004

UID Initialization

- New DFARS/WAWF Rules May 2004
- Impact assessment by Individual Communities
- Initial IT Architecture Planning
- Candidates Identified/Contract Mods
- Svc DLMS migration plans to OSD APR 2004
- Business Process Adjustments
- PM Plans to CAE by NOV 2004

MID- TO LONG-TERM

Realignment

- UID Expanded to Include GFE/GFM/GFP
- Critical Requirements Determination
- Individual Community Assessment to Identify Unique Requirements & Responsible MACOM
- Problem Resolution
- Support OSD Committee/Working Groups
- UID Project Office?

Consolidation

- ERP Implementation Plan w/ Milestones
- Monitor UID Progress During PM IPRs
- Tactical ERP Implementation
- Migration of MACOM unique functionality
- Phased approach ensuring:
 - AIS Integration
 - Joint Program Support
 - Data Interoperability
 - Activity Based Costing of Life Cycle



SUMMARY

- **UID is a strategic investment of potentially great value to sustainment of combat readiness of Deployed Forces - and in maintenance of operational readiness of Current Force.**
- **All classes of supply are affected**
- **UID affects Total Army and requires intensive management and appropriate resource commitments**
- **UID – and passive RFID - are open-ended, unfunded mandates**
- **The network, current or future, must be scaled to accommodate pervasive use of UID.**
- **Requirements must be understood and incorporated into the Common Logistics Operating Environment (CLOE), and Single Army Logistics Enterprise (SALE).**
- **Senior Army leadership extremely supportive. Collaborative and cooperative effort underway among all concerned.**