

# UNIQUE IDENTIFICATION (UID)



## **Joint Requirements Implementation Board (JRIB)**

**July 19, 2004**



# Agenda

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- ◆ Welcome & Introductions
- ◆ UID Goals & Objectives
- ◆ Trans-Atlantic Secure Collaboration Program (Grant)
- ◆ I&E (Muchmore)
- ◆ Joint Aeronautical Commanders Group (JACG) Perspective on UID (Breckon)
- ◆ **Break**
- ◆ UID Implementation – Army, Navy (Morgan, Breckon)
- ◆ Business Rules – I&A (Snyder)
- ◆ RFID Update (Estevez)
- ◆ Property Management (Sylvester/Michel)
- ◆ **Break**
- ◆ Legacy Policy (Sumpter)
- ◆ Maintenance Working Group (Clark)
- ◆ Technical Interface (Propert)
- ◆ International Strategy (Leibrandt)
- ◆ JRIB Critical Issues (Sumpter)
- ◆ Next Steps (Sumpter)



# UID Policy Implementation Timeline

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## Policy

- ◆ UID Required for all New Solicitations - 01 January 2004
- ◆ RFID policy (ADUSD Supply Chain Integration)
  - Active RFID Use - 02 October 2003
  - Final RFID Policy - Continue Current Use
  - Passive RFID Use on Required Items - July 2004
- ◆ Final UID DFAR Case - January 2005
- ◆ UID Implementation for Contracts with Government Furnished Property - August 2004
- ◆ UID Required for all Depot Manufactured Items - January 2005

## ISO/IEC 15434 Change Request

- ◆ US TAG Proposal Approved - May 2004
- ◆ Obtained support from Air Transport Association (ATA) - June 2004
- ◆ ATA/UID Guidance - Sept 2004
- ◆ ISO/IEC 15434 amendment issued - June 2005



# AT&L Goals and Objectives



# Objectives and Goals

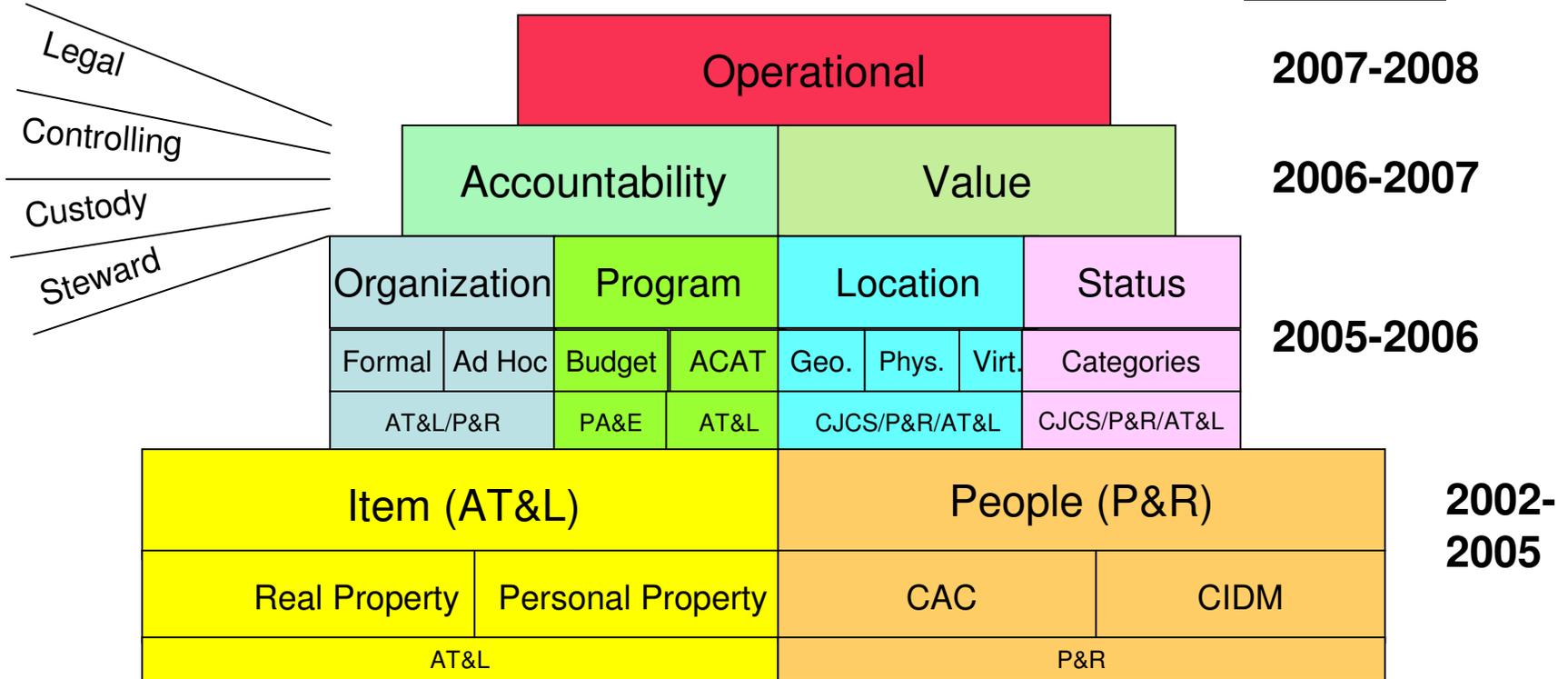
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- ◆ Develop a master plan and timeline integrating Real Property, UID of Tangible Items, and Property, Plant and Equipment
- ◆ Integrate the various UID efforts working with the Joint Staff, Personnel and Readiness, CIO and NII, Comptroller and Logistics and Acquisition
- ◆ Develop international support for the DoD UID solution
- ◆ Develop a legacy UID policy integrated with ADUSD Maintenance goals
- ◆ Integrate other stakeholders from OSD in UID



# Data Roadmap

## Time Line



CAC – Common Access Card  
 CIDM – Collaborative IDentity Management



# UID/Real Property/PP&E Integrated Plan

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- ◆ Phase I - Initial UID Capability (target completion September, 2004)
  - Add child data element
  - Develop access rules for registry, roles and responsibilities
- ◆ Phase II – Enhanced Item Intelligence (Sept. 2004 – Sept. 2005)
  - Item Description Aliasing (allow infinite aliases: catalog, NSN, description, etc.)
  - Status, with Effective Date (Fall, 2004)
  - Type of Mark (ability to add information into the database, even if 2D Data Matrix is not marked on the item) Flag for Physical UID
  - Current Part Number
  - Child UID



# UID/Real Property/PP&E Integrated Plan

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- ◆ Phase II (cont'd)
  - Reengineer:
    - Receipt and Acceptance (internal and external)
    - Next Level of Data (Organization, Program, Location, Status)
    - Cataloging
    - Government Furnished Property
    - Finalizing Real Property Definitions and CONOPS
    - Consider Feasibility Demonstration for Maintenance Data Integration with Registry
- ◆ Phase III (2005 – 2006)
  - Add data elements for Organization, Program, Location, Status
  - Reengineer Accountability and Value of Equipment and Spares
- ◆ Phase IV (2006 – 2007)
  - Data capture for Accountability and Value of Equipment and Spares
  - Reengineer material accountability and value

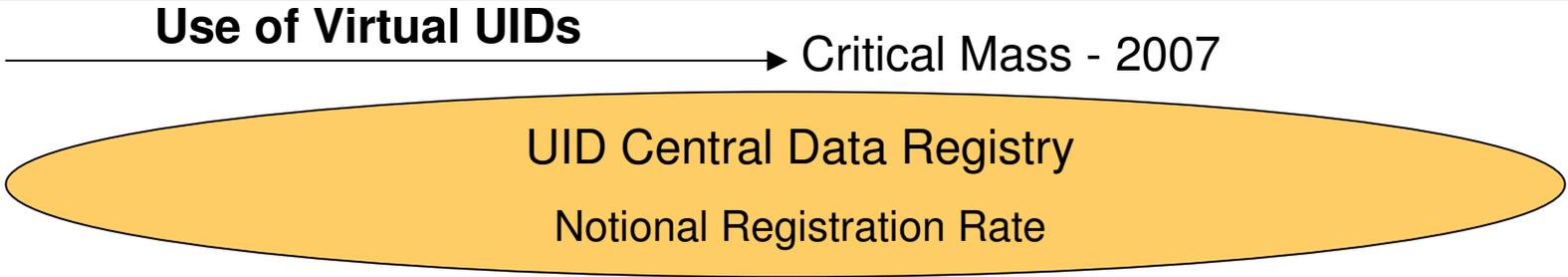


# Legacy Policy

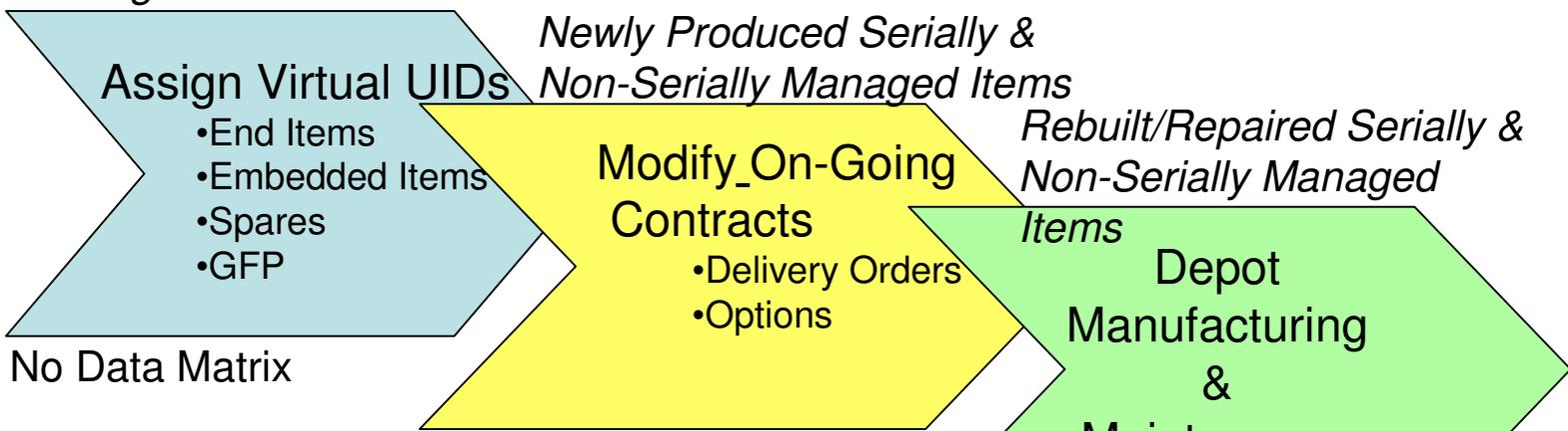


# Legacy Policy Migration Strategy

## Use of Virtual UIDs



*Deployed/Stored Serially Managed Items* → **Parts Physically Marked** →



|      |           |      |          |      |           |
|------|-----------|------|----------|------|-----------|
| 2005 |           | 2007 |          | 2010 |           |
|      | Near Term |      | Mid Term |      | Long Term |

No Data Matrix

Data Matrix UID  
•Data Plates  
•New Labels  
•Direct Mark

Data Matrix UID  
•Data Plates  
•New Labels  
•Direct Mark



# Draft Legacy Policy - “Definition of Completeness”

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- ◆ A UID program should have a -
  - Process for marking instructions (process, location, method)
  - Orders or business process approach for organic operations and contractual language to support every (attrition-based) opportunity to mark sub-assemblies, components and parts not yet marked
  - Where applicable plan to utilize existing (legacy) serial number tracking programs to provide virtual UID within parent assembly
  - AIS would have UID capability, and rudimentary sorts/relational linkage



# 2004 Legacy Policy Draft Requirements

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- ◆ Program plans need to be complete by 2005 and must -
  - Identify scope of embedded assets
  - Address the trigger events to be used by the program
  - Forecast target level of completion by fiscal year
  - Identify expected technology for marking and reading
- ◆ Significant percentage of sub-assemblies and end items with existing data plates updated by an interim target date
- ◆ Update plan to address business processes and data integration by an interim target date
- ◆ Services and components must develop plans and address data capture strategy by specific dates
- ◆ Programs will have different levels of completion by 2010
- ◆ Identify mission-essential items first



# JRIB Critical Issues



# Critical Issues

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- ◆ UID Registry Concept Exploration
- ◆ Data Capture
  - Develop a strategy to build support for data capture requirements in relation to other initiatives
- ◆ Enabling an Integrated Digital Environment with Industry
  - Regarding Government Furnished Property Management
  - Regarding Legacy Data
- ◆ UID End to End Process
  - Data and Process View
  - Systems View
- ◆ Coordination of Military and Intra-DoD Emerging UID Policies
- ◆ Development of Program Strategies for Deployment to Legacy
- ◆ Outreach and Communication



# Hot Re-engineering Projects

- ◆ Develop an end-to-end UID process model
- ◆ Re-engineer receipt, acceptance, and payment across DoD integrating property, logistics, contracts, financial and configuration management for UID
  - Learn from CH-47
  - Integrate with property accountability
  - Capture parent/child information
  - Integrate with Government Industry Data Exchange Process and Flight Safety Critical Aircraft Parts
  - Ensure connection to transportation and asset visibility capabilities
- ◆ Capture catalog and item designations relying on commercial capability
- ◆ Integrate with Standard Procurement System
- ◆ Develop ERP intersection criteria
  - WAWF and UID
  - Build UID into BEA assessment tool



# Milestone Criteria

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- ◆ Applicable to all programs that result in the delivery of items to the Department of Defense
- ◆ Program plan incorporates UID requirements for all items that meet the UID criteria
  - Contracts include the UID DFARS clause
  - Assessment of equipment and reparable, material, and consumables under \$5000
  - Supports Performance Based Logistics objectives for total asset visibility, life cycle inventory management, and serial number tracking
  - Consistent with financial accounting objectives
  - Consistent with property management objectives
  - Integrates UID in configuration and document management
  - Organic manufacturing addressed
- ◆ Program plan incorporates UID requirements for all embedded items that meet the UID criteria
  - Contracts include the UID DFARS clause
  - All serially managed inventory included



# Milestone Criteria

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- ◆ Program plan addresses UID requirements for legacy items
  - In-service items have UID retrofit plans for 2010 completion
  - Inventory items have been included
  - Embedded items have been included
  - Consistent with Performance Based Logistics objectives
- ◆ Program plan addresses AIT infrastructure requirements
  - Maintenance and supply support
  - Organic manufacturing
  - Deployable assets
- ◆ Program plan addresses compatibility with automated information systems
  - Program-specific information systems
  - Cross-program/cross-service information systems



# Next Steps



# Build on Emerging UID Strategies

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- ◆ **Corporate and Plant-wide single processes (Engine manufacturers initially)**
- ◆ Corporate top-down strategies
- ◆ Pilot programs (JDAM; CH-47)
- ◆ Program level (Blackhawk; V-22)
- ◆ Small business (Central labeling capability; marking by prime contractor or government)
- ◆ Engineering drawings best business practices
- ◆ Standard flow-down clause to suppliers
- ◆ Legacy item data integration



# Roadmaps Under Construction

## DoD

- Distribution Centers & Depots
- Inventory Control Points
- Components at Large
- DCMA
  - GFP
  - QA
  - Receipt & Acceptance
    - Address mid-909
- Program Managers
- Item Managers

Organizations

Roles and Resp.

Industry (Small/Medium/Large Companies)

DoD AIS Roadmaps and UID Conops



# Stakeholder Guidance

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- ◆ PEO/PM Awareness, Roadmap, and Implementation Guidance
- ◆ Quality Assurance Plan
- ◆ Part Marking Guidance
- ◆ Contracting/Finance
- ◆ Process Capability (Hardware/Software)
- ◆ Engineering Guidance
- ◆ Data Management
- ◆ Production Readiness