

2006 REQUIREMENTS SYMPOSIUM



Item Unique Identification (IUID) & Serial Number Tracking (SNT)



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Chief, Logistics Support Flight
WR-ALC/586 CBSS/GBMSC**



Overview



- Program Description / Concept / Background
- Unique Item Identifier (UII)
- Automated Information Data Capture
- Supply Chain Use of UII
- Direct Part Marking Examples
- OSD Requirements & Policies
- SNT Background
- Program Challenges
- UID / SNT Anticipated Benefits
- Government UID Focal Points
- UID Web Sites
- Summary



IUID / SNT Concept



Transformation

Drivers

Functions

SNT PMO
Depots
MAJCOMs
SPOs

Serialized Item
Management

Functional Areas

Value

Capabilities

Analysis

Processes

Information Systems

Serial Number
Tracking

Supply Chain Events

IL, SSG/MSG
TR, AF AIT PMO

Serially Managed Assets

UID Part
Marking

Depots
AF AIT PMO

SNT Focuses on Transformation



IUID BACKGROUND



- **Definition:**

- Discrete item identifier (like a SSN) for tangible items encoded in 2 dimensional Data Matrix
 - Items having value of greater than or equal to \$5K
 - **Or, less than \$5K, IF**
 - Serially managed, or
 - Inventory controlled, or
 - Determined by the Program Manager
- Supports the AF Elog21 transformation effort



IUID BACKGROUND (Cont'd)



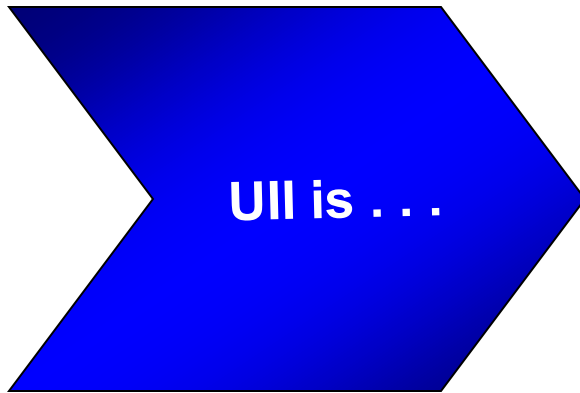
- **Reasons for IUID:**
 - To comply with the recent Federal Accounting Standards Board requirement
 - To enable property management processes throughout the DoD enterprise to engage with precision and speed to:
 - Always know what property the DoD owns
 - Always be able to account for it
 - Know where it is
 - Know who has custody of it
 - Know who is accountable for it
 - Know how it has been maintained
 - Know what it cost
 - Know it's value
 - And use this information to:
 - Enable capability-based readiness
 - Support planning, forecasting, and budgeting
 - Identify gaps in capabilities
 - Improve reliability and warranty management
 - Improve processes
 - Reduce cycle time



Unique Item Identifier (UII)



- The Two Dimensional Data Matrix Mark



... the **set of data for tangible assets** that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted business applications and users.

EID	(12V)194532636
Orig. Part No.	(1P)1234
Serial No.	(S)786950





Automatic Information Data Capture



Automatic identification and data capture (AIDC) eliminates error-prone and time-consuming manual data collection and data entry. AIDC provides quick, accurate, and cost-effective collection and entry of data.



STEP 1: Mark Items STEP 2: Register Data STEP 3: Automatic Data Capture



WAWF

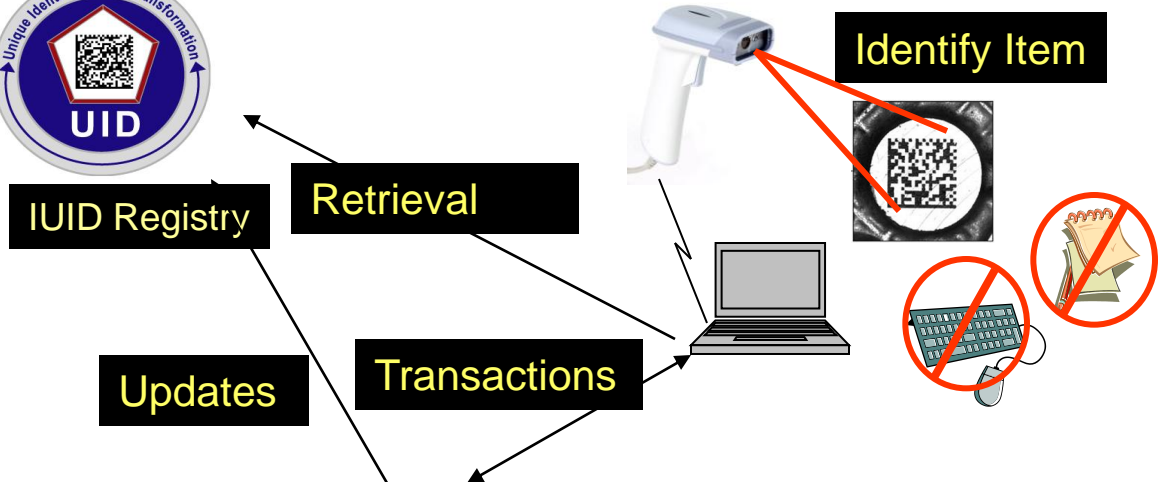


Unique Item Identifier (UII)

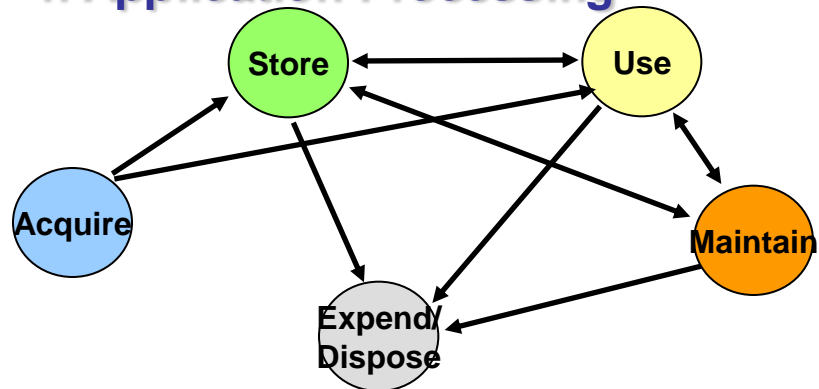
- Class I – Subsistence
- Class II – Clothing & Individual Equip
- Class III – Fuels & Petroleum (Packaged)
- Class IV – Construction (Installed Equip)
- Class V – Ammunition
- Class VII – Major Items
- Class VIII – Medical
- Class IX – Repairables

Estimated Scope of UII Coverage

Metric	Quantity (millions)
UII Items in DoD Inventory	67.7
Property in Possession of Contractors	29.5
Total UIIs	97.2

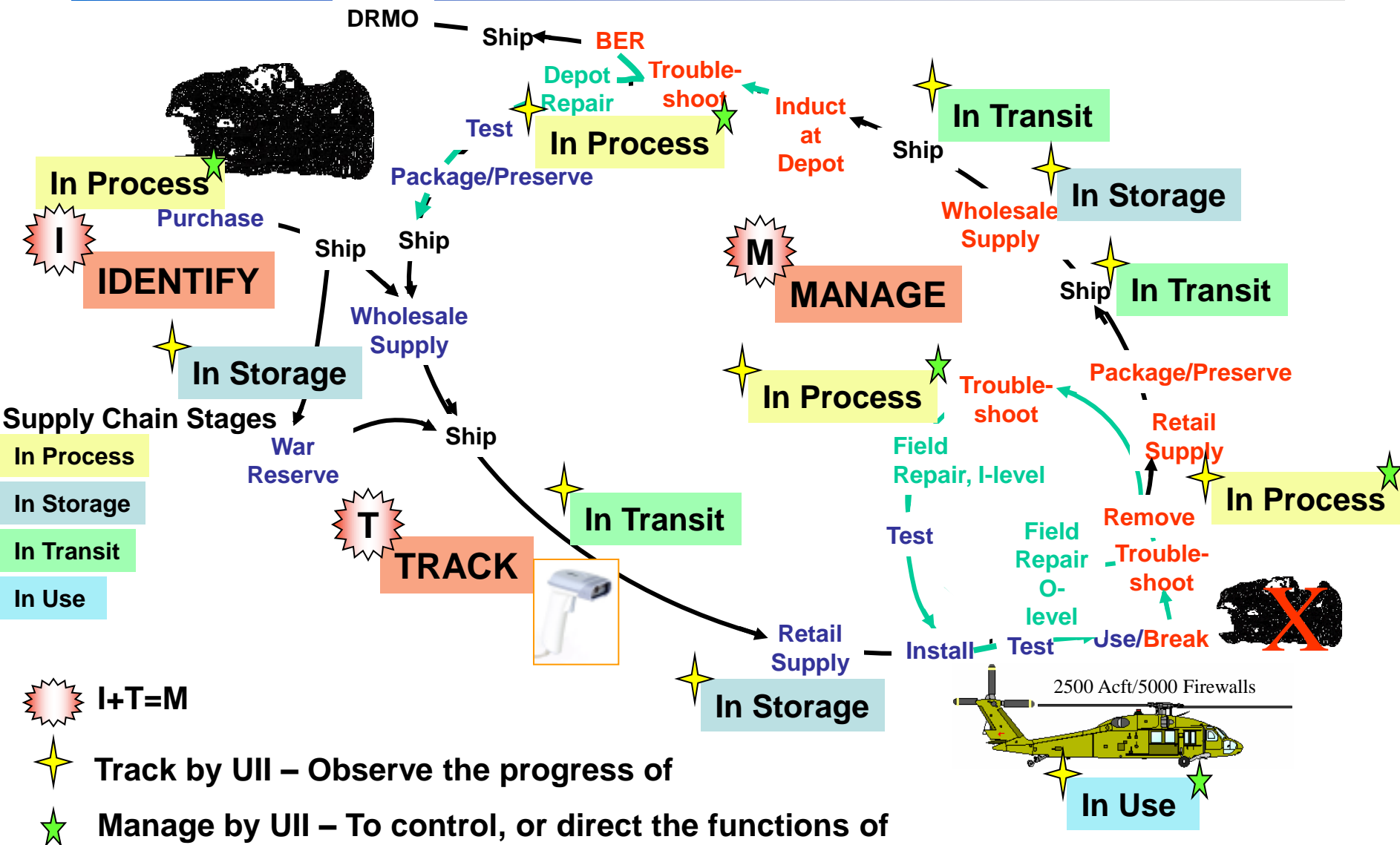


STEP 4: Application Processing





Supply Chain Use of the UII

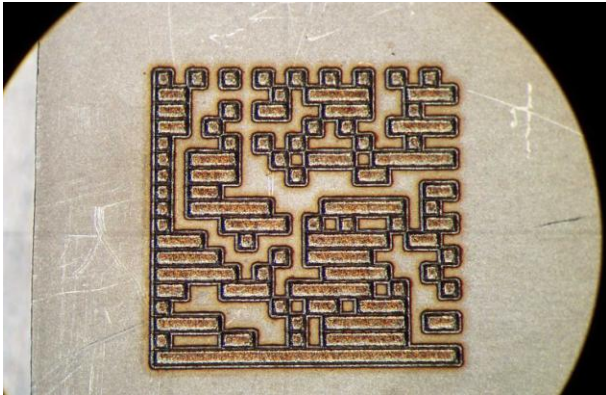




Direct Part Marking Examples



» Common approaches



Laser



Dot Peen



Ink Jet



Electro
Chemi
Etch



OSD Requirements & Policies



- DFARS 252.211- 7003 Item Identification and Valuation
- Governing Specification, MIL-STD-130L (M)
- OSD Memorandums:
 - 29 Jul 03, place DFARS clause on **new solicitations** beginning 1 Jan 04, > \$5K
 - 17 Dec 03, extended policy to include **depot manufactured item** beginning 1 Jan 05
 - 3 Sep 04, updated previous policy, further defined requirements and addressed Automated Information Systems (AIS)



OSD Requirements & Policies (Cont'd)



- OSD Memorandums (Cont'd):
 - 23 Dec 04, addressed **legacy assets** and UID Program Plans.
 - 12 May 05, updated UID to Item Unique Identification (IUID) and addressed property in possession of contractors (PIPC)
- Other Significant UID dates:
 - Jan 06 – Program Implementation Plans were due to Milestone Decision Authority
 - 2010 – OSD goal for completion of legacy item marking



Program Challenges



- **Initial Funding**
- **Many vendors not ready to implement UID policy**
- **Current Part Marking Equipment has limited marking capability**
- **Modification of Engineering Drawings and Tech Orders must be accomplished prior to marking assets**



UID / SNT

Anticipated Benefits



- **Acquisition/Engineering**
 - Warranty Management
 - Configuration Management
 - High Dollar
 - Time Critical Item Management
- **Supply**
 - Inventory Accuracy
 - Total Asset Visibility
- **Transportation**
 - Intransit Visibility
 - Track Transportation



UID / SNT



Anticipated Benefits (Cont'd)

- **Maintenance**
 - Cost Control
 - Repair History
 - Bad Actor Identification
 - QDR Tracking
- **Disposal and Reutilization**
 - Hazardous Materials/Precious Metals Tracking
 - Prevent Inappropriate Re-entry of Parts
- **Financial**
 - Asset Financial History Tracking
 - Asset Valuation



WR-ALC Activities



- The Center UID IPT established to:
 - Ensure compliance with the latest USD (AT&L) policy
 - Lead the ALC effort in developing a Center-wide UID Implementation Plan
- OSD directed PEOs to develop Program Implementation Plans
 - WR-ALC submitted 23 Program Implementation Plans to the Milestone Decision Authority in the second quarter of FY06
- **31 May 05 - Received** Pathfinder UID part marking cart
 - Capability for data plate/labels and direct part marking
 - Trained/Certified 49 maintenance personnel
 - Selected 27 NSNs on F-15 avionics for pathfinder
 - Changed engineering drawings and Technical Orders
 - To date over 900 parts marked
 - Average time to mark 6.5 minutes



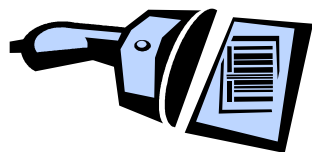
UID Focal Points



- UID/UII Program - Mr. Robert Leibrandt at (703) 695-1099 or robert.leibrandt@osd.mil
- DCMA UID Lead - Ms Joan Sherwood at (703) 428-0982 or joan.sherwood@dcma.mil
- **WR-ALC POCs:**
 - 542 CSW OPR– Mr. Joe DeCapite (478) 926-0854 or joeseeph.decapite@robins.af.mil
 - 542 CSW OPR-- Mr. Henry Tyson (478) 926-2971 or henry.tyson@robins.af.mil
 - EN OCR – Mr Bill George (478) 926-2165 or Bill.George@robins.af.mil
 - 330th MXW OCR – Mr. Marshall Cook (478) 472 – 3261 or Marshall.Cook@robins.af.mil
 - PK OCR - Mr. Steve Esmond (478) 472-1100 or Steven.Esmond@robins.af.mil

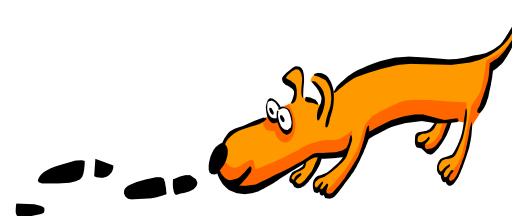


UID WEB SITES



[OSD: http://www.acq.osd.mil/dpap/UID](http://www.acq.osd.mil/dpap/UID)

[DAU: http://www.dau.mil/index.asp](http://www.dau.mil/index.asp)

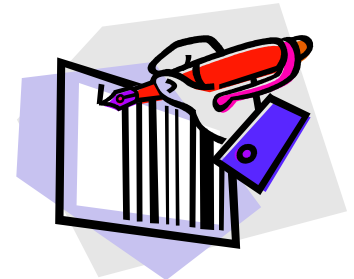




Summary



- Unique Identification (UID) is OSD directed
- Serial Number Tracking (SNT) is the goal/benefit
- Center incorporating UID requirements into new contract buys for items over \$5K since Jan 04
- Legacy asset marking began in Jul 05
- Need industry awareness of UID requirements, benefits and utilization

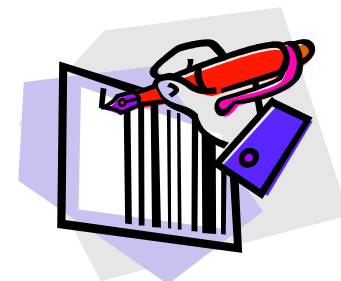




Questions

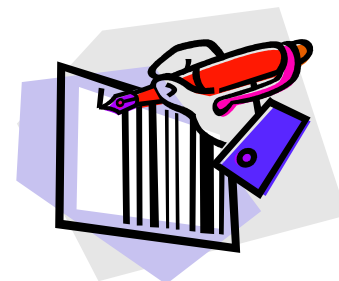


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Backup





RFID



Radio **F**requency **ID**entification (RFID) is

- **W**ireless information transfer via radio waves
- RFID tags can signal their presence, unique identity, location and other user-defined info
- Reads are performed in milliseconds
- Automatic (no human error)
- No line of sight, no physical contact
- Works in harsh environments
- System of tags, readers, antennas, RFID-enabled printers, software, computers



RFID



Radio **F**requency **ID**entification (RFID) is a **PRODUCTIVITY TOOL**

- Objects tagged with RFID can be tracked, sorted, inventoried, picked, distributed and assembled faster and easier
- Information stored on RFID tags puts information where it's needed most, in users' hands... even replacing paper documents



RFID



Why do you care about business productivity?

- Save time
- Save labor
- Increase throughput
- Eliminate data entry errors
 - Keyboard entry
 - Bar code scanning

Bottom Line Savings





RFID



RFID is already increasing *your* productivity...



Automatic toll collection
10 million users



Building access control



Timing
marathons and
Ironman races



Exxon/Mobil Speedpass
6 million users



400 McDonald's
stores in Chicago
and north Indiana



Anti-theft auto immobilizer
10 years



Ticketing and event
access (ski-lifts,
Academy Awards)



Library check out