Item UNIQUE IDENTIFICATION (IUID)

Property Management
Concept of Operations

Draft November 17, 2005
A common sense approach:

- Mark items with **machine readable** unique identifiers
- Centrally register pedigree data and value for each marked item
- Retrieve unique identifier from item in use through **automatic data capture**
- **Associate and retrieve** data on item value, maintenance history and accountability
- Identify and define collaboratively high priority scenarios for step-wise application

Achieve value and extend resources:

- Exploit **automatic data capture** to improve productivity
- Enhance **precision** of logistics, contracting, and financial business transactions
- **Consistently capture** the value of items DoD buys, control these items during their use, and improve item performance
- **Track items** in property accountability, inventory, and financial management systems toward achieving compliance with the Chief Financial Officers Act
Scenarios

- Real Property and Personal Property
- Property transfer
- GFP
- Military Equipment Valuation
- SIM/SNT/UIT
- Maintenance
- Supply
- Transportation
Property management is strategically critical throughout the DoD enterprise to engage with precision and speed to:

- Always know what property the DoD owns
- Know where it is
- Know who has custody of it
- Know who is accountable for it
- Be able to account for it
- Know how it has been maintained
- Know what it cost
- Know what it’s worth

And use this information to:

- Support operations through Joint Logistics, Agile Sustainment, and Logistics Information Fusion
- Support planning, forecasting, and budgeting
- Identify gaps in capabilities
- Improve reliability and warranty management
- Improve processes
- Reduce cycle time
Property Transfer Environment

- 35 Physical Moves
- 25 Building Moves
- 10 Sites Moves
- 52 IT Transactions
- 11 Info Systems
- 7 Logbooks

- No End-to-End Management
- Lack of Visibility
- Long-Cycle Times
- Increased Inventory Levels
- Limited Ability to Forecast
Goals and Objectives

<table>
<thead>
<tr>
<th>Goals</th>
<th>Objectives</th>
</tr>
</thead>
</table>
| Goal 1: Ubiquitous and Globally Unique Identifiers | • Unique identifiers become keys to discovery and correlation of property information.  
|                                            | • Repositories enable property data use.                                   |
|                                            | • Property Management business processes streamlined.                      |
| Goal 2: Lower Life Cycle Management Costs  | • Right sizing of inventories.                                             |
|                                            | • Improved reliability and planning (e.g., warranty management and failure analysis). |
|                                            | • Improved property responsiveness.                                        |
|                                            | • Improved utility of property information and cross-enterprise collaboration. |
|                                            | • Improved predictability of maintenance events and costs                   |
| Goal 3: Improve Operational Readiness      | • More effective and efficient property planning and deployment.           |
|                                            | • Improved property intelligence                                           |
|                                            | • Improved property management responsiveness to sustain operations         |
| Goal 4: Capitalize on Leading Practices    | • IUID is neutral and based on open standards, with data accessible by all systems. |
|                                            | • Low cost and readily available unique identifier technologies.            |
|                                            | • Deliver instantaneous and repeatable information for locating, controlling and valuing accountable personal property and real property assets anywhere and anytime. |
| Goal 5: Reliable Accountability and Visibility | • Improved financial management accounting and reporting.                        |
|                                            | • Improved property accounting audit trails and data integrity.             |
|                                            | • Stronger property management controls during implementation and operation. |
|                                            | • Enhanced visibility and accountability.                                   |
| Goal 6: Reduce Burden on Workforce         | • Improvement in the quality of work-life.                                 |
|                                            | • Enhanced knowledge sharing.                                               |
|                                            | • Improved access to the right information.                                |
|                                            | • Improved property data integrity.                                        |
## Strategic Outcomes

<table>
<thead>
<tr>
<th>Strategic Outcome</th>
<th>Description</th>
<th>Period of Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal and Real Property Uniquely Identified</td>
<td>Efforts associated with mapping real and personal property with a unique identifier.</td>
<td>Current and indefinitely into future.</td>
</tr>
<tr>
<td>Critical Mass of Uniquely Identified Personal and Real Property Achieved</td>
<td>Efforts associated with achievement of item unique identification (IUID) program ramp-up and self-sustainment.</td>
<td>Current through EOY07 (personal property) and EOY10 (real property).</td>
</tr>
<tr>
<td>Robust Infrastructure Installed</td>
<td>Efforts associated towards architecting and developing an infrastructure capable of technically and functionally managing unique identifiers, registries and other technical requirements.</td>
<td>Current through EOY08 (full operating capability), with additional add-ons through EOY10.</td>
</tr>
<tr>
<td>Effective Operations Achieved</td>
<td>Efforts associated with maintaining operations and continuous improvement.</td>
<td>EOY07 and future.</td>
</tr>
</tbody>
</table>
Property Management Capabilities

**Master Data Management**
- Globally Accessible/Secure Enterprise Data
- Authoritative Data Sources within Master Data
- Create Data Once Reuse Often
- Content Reliable, Accurate, Consistent
- Open Interfaces & Standards

**Automated Transaction Routing and Processing**
- Locate Property in Previous and Current Accountability Systems
- Separate Accounting from Accountability
- Intuitive Workflows
- AIT/AIS Integration
- Standardized Transactions

**Integrated and Collaborative Lifecycle Management**
- Process Integration (Acquisition, Inventory, Maintenance, Transportation, etc)
- Requisition, Disposition, Reutilization
- Updates for Key Transaction Events, Including Valuation
- Concatenated UII - Common Key Across Systems

**Scalability**
- Full Integration of Force Structure, Personnel and Property
- Full Integration with Contractor Systems for DoD Property in Contractor Possession
- Enhance Access to Industry, Federal Entities and External Governments

**Executive Oversight**
- Real Time Management Visibility
- Consistent approval processes and rules
- On-line Queries and Reporting

**Outcomes**
- Improved data integrity
- Enhanced productivity
- Lower costs
- Improved property accountability & visibility
- Transform business processes
- Decentralized content creation and management with centralized control
- Supports all use cases and functional requirements
- Focused logistics
- Improved operational readiness
- Ability to serve new stakeholders and customers
- Create business intelligence
- Facilitate financial and performance improvements
- Strength controls
Precepts

- The IUID Registry is not an accountability system
- The IUID Registry is not an asset in-transit visibility system
- The IUID Registry is the authoritative source for UIIs and their pedigree data, which includes acquisition cost and accountability
- All property that requires a UII is accountable property
- The UII shall be accountable in only one property accountability system of record at a time
- An item assigned a UII can only exist at one location at a time. The IUID Registry will maintain accountability at these levels:
  - To the top level Property Accountability System, as designated by the reporting component
  - To the inventory level by the DoDAAC of the storage destination
  - To the depot maintenance level by the DoDAAC of the depot
  - To disposal level by the DoDAAC of the accountable DRMO facility
Data Capabilities

♦ What is it?
  – Description
  – Part Number
  – Serial Number

♦ How much did it cost?

♦ Who has property stewardship for it?

♦ What accountability system knows about it?

♦ What’s its state?
  – Storage
  – Use
  – Depot Maintenance
  – Disposal
Wide Area Workflow (WAWF) as the financial system is the base of a electronic property management process

**WAWF** is a transaction system, supporting a distinct part of the procurement lifecycle from –

- submission of electronic invoices
- through Inspection and Acceptance
- to Electronic Payment Receipt

EDA – Electronic Document Access
CCR – Central Contractor Registration
DAASC – Defense Automatic Addressing System Center
GTN – Global Transportation Network
DSS – Distribution Standard System

_Documentation & Transaction System_
IUID Registry Capabilities

Current

- WAWF Receipt
  - Acceptance
  - Invoice

March 2005
- Establish UID for New Items

Phase 1

- + Property Transfer

December 2005
- Add 856 process
- Movement of Gov't property
  - Vendor to vendor
    - K to K
    - ship-in-place
  - DoD to vendor
  - Vendor to DoD

Phase 2

- + Property Accountability

June 2006
- Connects to property accountability (transfer or disposal through PCARSS)
  - Assumes data population of registry with GFP by majority of industry by March, 2006

Phase 3

- + Requisition

FY 2007
- Adds 856 S from DSS
- Industry to Req. thru WAWF
Accountable Functions

1. Acquire 1.0
2. Store 2.0
3. Use 3.0
4. Maintain 4.0
5. Expend/Dispose 5.0

- Note 1 – Excess or demilitarized designated items in storage
The UII data in the IUID Registry shall be updated by EDI transactions or directly via Web/XML input

- Preferred end state: “Wide Area Work Flow” Property Transfer Process?

The following trigger events shall be used to update the accountability data for a UII registered in the IUID Registry:

- Receipt by the Staging/Storage Destination
- Receipt by the top level Property Accountability System
- Receipt by the Maintenance Depot
- Receipt by the Disposal Facility / Excess warehouse
Trigger Points for IUID Registry Updates

1.1 Receive Item
2.1 Receive Item
3.1 Receive Item
4.1 Receive Item
5.1 Receive Item

- Supplier
- Warehouse
- User
- Maintenance
- Disposal

- Acquire
- Store
- Use
- Maintain
- Dispose

-- EDI Transaction/Web/XML Input
 Systems Interactions

- System to system interactions
- Transactional interactions

Vendor → WAWF → GEX

UID Registry

Inventory Systems
Property Systems
DFAS
Maintenance Systems
# Roles and Responsibilities

<table>
<thead>
<tr>
<th>Roles</th>
<th>Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor</td>
<td>♦ Delivers UII and registers pedigree data</td>
</tr>
<tr>
<td></td>
<td>♦ Maintains stewardship of GFP</td>
</tr>
<tr>
<td>DCMA or Destination</td>
<td>♦ Inspects and accepts UII item</td>
</tr>
<tr>
<td>IUID Registry Administration</td>
<td>♦ Establish interfaces with WAWF and Property Systems</td>
</tr>
<tr>
<td></td>
<td>♦ Maintain the IUID Registry</td>
</tr>
<tr>
<td>Storage Destination</td>
<td>♦ Receipt transactions involving UIIs</td>
</tr>
<tr>
<td>Top Level Accountability</td>
<td>♦ Receipt transactions involving UIIs</td>
</tr>
<tr>
<td>Systems</td>
<td>♦ Maintain UII accountable property records current and correct in the applicable</td>
</tr>
<tr>
<td></td>
<td>record. Report lost, destroyed or expended UIIs</td>
</tr>
<tr>
<td>Maintenance Depot</td>
<td>♦ Receipt transactions involving UIIs</td>
</tr>
<tr>
<td>Disposal (DoD 4160.21M)</td>
<td>♦ Receipt transactions involving UIIs</td>
</tr>
<tr>
<td></td>
<td>♦ Report disposition of UIDs</td>
</tr>
</tbody>
</table>
Metrics

♦ First Military Equipment Valuation in 2006
♦ Critical mass of personal property items identified.

Measurable outcomes by 2007:
- Existing serialized items meeting item unique identification (IUID) criteria marked and registered
- Full Operational capability of IUID Registry
- Full Operational capability of Real Property Unique Identification (RPUID) Registry
- Critical Mass of RPUIDs

♦ 100% of personal property items and affiliated embedded items meeting IUID criteria marked and registered by December 2010.