

IUID Program Implementation Plan For The XYZ Engine System

Program System Name:	XYZ Engine	Program Element:	
Program Manager	Col Jane Doe	PEO	ABC
Date of Plan	11 Mar 05 (DRAFT)	ACAT	ID

References:

- Acting Undersecretary of Defense (USD) (AT&L) Memorandum, Policy for Unique Identification (UID) of Tangible Items – New Equipment, Major Modifications, and Reprocurments of Equipment and Spares, July 29, 2003
- Acting USD (AT&L) Memorandum, Update to Policy for Unique Identification (UID) of Tangible Items – New Equipment, Major Modifications, and Reprocurments of Equipment and Spares, November 26, 2004
- Acting USD (AT&L) Memorandum, Revision of Update to Policy for Unique Identification (UID) of Tangible Items – New Equipment, Major Modifications, and Reprocurments of Equipment and Spares, December 22, 1994
- Acting USD (AT&L) Memorandum, Policy for Unique Identification (UID) of Tangible Personal Property Legacy Items in Inventory and Operational Use, Including Government Furnished Property (GFP), December 23, 2004
- USD (AT&L) Memorandum, Policy Update for Item Unique Identification of Tangible Personal Property, Including Government Property in the Possession of Contractors, 12 May 2005
- Department of Defense Standard Practice Identification Marking of U.S. Military Property, MIL-STD-130L, Change 1, December 2004
- Office of the Principal Deputy Under Secretary of Defense (AT&L), Department of Defense Guide to Uniquely Identifying Items, Version 1.4, April 16, 2004
- Office of the Principal Deputy Under Secretary of Defense (AT&L), Department of Defense Guidelines for the Virtual Unique Item Identifier (UII), Version 1.0, December 29, 2004
- Office of the Principal Deputy Under Secretary of Defense (AT&L), Department of Defense Guidelines for Engineering, Manufacturing and Maintenance Documentation Requirements for Unique Identification (UID) Implementation, Version 1.0, December 6, 2004
- Prime Contractor Xxx Single Process Initiative submitted to DCMA mm/dd/yyyy.
- Department of Xxx IUID Concept of Operations and Policy Guidance, issued mm/dd/yyyy.

Background:

A memorandum from the Acting USD (AT&L) of July 29, 2003, entitled Policy for Unique Identification (UID) of Tangible Items – New Equipment, Major Modifications, and Reprocurments of Equipment and Spares, requires the implementation of an Item Unique Identification (IUID) program that assigns a set of data elements to be marked on items that is globally unique and unambiguous. The XYZ Program Subcommittee at its January 2005 meeting directed the XYZ Program Manager (PM) to draft an IUID

implementation plan. This plan describes IUID implementation for the XYZ Engine program. The scope of the XYZ Engine IUID effort will encompass:

- The XYZ Engine end item,
- Serially-managed modules and reparable parts embedded within the XYZ Engine,
- XYZ Engine serially-managed modules and reparable parts that are procured separately from the engine end item, and
- Government furnished property in the possession of contractors that supports the manufacture of the XYZ Engine end item, modules and reparable parts.

The IUID effort will be applied to XYZ Engines procured under new solicitations and those being procured through on-going contracts, and engines in operational use, inventory or undergoing depot maintenance or overhaul.

Implementation Strategy:

New items: PM XYZ began incorporating the DFARS interim rule after Jan. 1, 2004. Our first contract was let August, 2004, including the interim DFARS clause. Subsequent solicitations and contracts have incorporated the interim rule, and moving forward, will include the final rule, issued April 22, 2005 in all new solicitations. For on-going solicitations, the following criteria will be assessed with our vendors and depots to determine the feasibility of modifying the contracts for IUID:

- Remaining Period of Performance
- Time/Cost to Implement
- Method/Source of Funding
- Contractor IUID Capability

Additional activities underway include training across the program and monitoring compliance.

Legacy items: Since the XYZ Engine is a legacy item whose design documentation does not completely enable machine-readable information (MRI) marking, instructions to enable MRI marking must be incorporated in either the engineering drawings and technical data that define the engine or the manufacturing specifications that control the marking of the engine and its component parts. However, the marking of XYZ engines has been a long-standing practice. Thus, engineering, manufacturing and maintenance documentation on the existing XYZ program addresses the marking of equipment, although marking through machine-readable means is not the prevalent method in current use. The most expeditious and least costly means will be used to provide MRI marking instructions.

The priority of XYZ Engine legacy items will be:

- Items with existing data plates and/or labels
- Mission-essential items
- Serialized items currently maintained in the ABC Information System.
- Other

Depot manufactured items and plant equipment: PM XYZ is working with our contractors to identify opportunities to modify existing service contracts for maintenance

support for those engines and parts that are serviced by industry. IUID requirements will be incorporated into any new contracts let for these services. For existing organic manufacturing processes, reviews for insertion of IUID requirements into the parts marking process are underway. We intend to conduct a pilot study 1Q 2006 to assess the process. This pilot study will include engineering assessments as needed, marking process modifications, and data capture and transmission requirements.

Parts Assessment: PM XYZ will conduct a review of all items, based on our current as-built lists to determine which items will require IUID marking. We will use the guidance provided by OSD as a starting point for the assessment, including the DoD Guide to Uniquely Identifying Items.

Property in the Possession of Contractors:

PM XYZ contractors will have government personal property in their possession in support of our program. Further, personal property will include both government furnished property and contractor acquired property. Pursuant to the 12 May 2005 Policy Update Memorandum for Property in the Possession of Contractors, PM XYZ will monitor and assist our vendors in the DD Form 1662 data submission process and transition to an electronic property management system.

The XYZ PMO will lead a team of Service subject matter experts in equipment management to develop a CONOPS document for IUID by December 2005. The CONOPS is critical to ensuring that the XYZ application is developed to effectively meet IUID assigning, marking and reporting requirements. Organizational business process implementation of the IUID program for tactical/deployable units is the domain of each Military Service.

Trigger events

Legacy equipment will be managed initially through the assignment of a virtual UII. Physical marking of legacy equipment and personal property will be accomplished in accordance with MIL-STD-130 during the following trigger events, at both contractor and government locations:

- Scheduled maintenance
- Unscheduled maintenance
- Physical inventory

Other trigger events may be identified by the Services.

Technical documentation strategy:

The XYZ IUID requirement is based on the value proposition that IUID of legacy items provides a joint data capability that enables achievement of focused logistics and performance-base logistics strategies. Initial IUID application will be on XYZ modules and repairable parts that are serialized today or already have data plates. These items will be assigned “virtual” UIIs in DoD information systems, deferring the physical item marking until a “trigger event”, such as maintenance or overhaul, occurs. Migration

strategies will be used to resource and accomplish the technical analysis, as required, to provide instructions for labeling or directly marking items that are not currently serialized or have data plates.

To be considered complete for unique identification purposes, the XYZ program will have marking instructions (process, location, method), orders or business process modifications for organic operations and contractual language in place to support every attrition-based opportunity to mark sub-assemblies, components and parts not yet marked.

Program support system

Maintenance of the XYZ Engine is provided at both commercial and organic depots. Maintenance and overhaul activity will be the primary trigger event for application of IUID to XYZ Engines.

Virtual UIIs

The XYZ Engine will employ the concept of using virtual UII strategies for engines and spare parts, which are physically in operational use or inventory. A virtual UII exists in effect though not in actual form. Under this concept, the UII data elements for the engine and its serially managed modules and spare parts are captured in a database, but the data matrix carrier containing the data elements is not physically applied to, or marked on, the items. These facets suggest that engine items can only receive a virtual UII where the items are already serially managed modules or reparable.

The XYZ virtual UIIs will be submitted to the OSD IUID Registry, where it will be flagged as a virtual UII. Once an item is physically marked with its UII, the flag indicating that it is a virtual UII will be removed in the OSD IUID Registry. The XYZ data for the virtual UII pedigree will be: Concatenated UII, Issuing Agency Code, Enterprise Identifier, Original Part Number, Serial Number and Book Value (or Fair Market Value). The registration of virtual UIIs will be web-enabled.

Compatibility with cross program, cross service Automated Information System

Where applicable, existing legacy serial number tracking programs will be utilized to provide virtual UII within parent assembly. Supporting automated information systems will have IUID capability.

Identify IUID related opportunities to improve or enhance business processes

We have identified the following business processes we believe will be affected by IUID implementation:

- Improved failure tracking
- Reduced data entry errors
- Improved asset tracking
- Enhanced inventory and property management

DRAFT

PM XYZ will be assessing our AIS to determine how to incorporate IUID with appropriate links to the IUID Registry, which will enable the opportunities identified above. Additional assessments on AIT infrastructure will be conducted as well in FY06, leveraging the DoD AIT office guidance.

Metrics:

The success of the program will be measured by the:

- number of total items requiring IUID
- percent of total items assigned a virtual UUI;
- percent of items assigned a UUI reported to the IUID Registry
- percent of items assigned a Virtual UUI that have been physically marked with a IUID-compliant Data Matrix
- Percent of total items marked with a IUID-compliant Data Matrix
- Percent of new contracts including the IUID clause
- Percent of existing contracts modified for IUID requirements

Table 1 – Elements and Dates

Elements/Dates			
		<u>FY Start</u>	<u>FY Complete</u>
1.0	Preparation Activities		
1.1	Priorities for application of IUID and associated data transfer finalized during 75 day comment period (<i>See Figure 1</i>)	APR 2005	AUG 2005
1.2	AIS integration strategy studies and ROM estimates completed – Phase 1	JAN 2005	DEC 2005
1.3	AIS integration strategy studies and ROM estimates completed – Phase 2	AUG 2005	DEC 2005
1.4	Budget for IUID implementation plan Phase 1 submitted	MAR 2005	MAR 2005
1.5	Budget for IUID implementation plan Phase 2 submitted (FY08 POM)	DEC 2005	DEC 2005
2.0	Implementation/Execution Activities		
2.1	IUID CONOPS and marking strategy studies and ROM estimates completed	JUL 2005	DEC 2005
2.2	Generic listing of items requiring IUID completed for each application priority	JUL 2005	DEC 2005
2.3	Legacy contracts (issued prior to 1 Jan 2004) modified	JAN 2005	JAN 2007
2.4	Progress Reviews	APR 2005	SEP 2010
3.0	Capability Achieved (physical marking & ability to transfer Pedigree data to Registry) (Tied to XYZ Build Schedule)		
		<u>Full Capability Start</u>	<u>Full Capability Achievement</u>
3.1	All New solicitations include IUID Requirement	JAN 2004	JAN 2006
3.2	Legacy Contracts Modified	AUG 2005	AUG 2006
3.3	Assignment of Virtual UIIs	OCT 2006	SEP 2007
3.4	GFP in possession of contractors marked	OCT 2005	SEP 2010
3.5	Items in operational use marked	OCT 2007	SEP 2009
3.6	Items in inventory (ICPs, Supply Depots, MTFs, etc) marked	OCT 2007	SEP 2010
3.7	Depot maintenance & manufactured items marked	OCT 2007	SEP 2010
3.8	IUID capable AIS	MAR 2006	OCT 2008

- 1.1 Elements/Date Established priorities for application of UID and associated data transfer:
 [insert priority number 1 (high), 2 (med), 3 (low),]
- __1__ New solicitations: Post Jan 2004
 - __1__ On-going Contracts: Post Jan 2005
 - __2__ GFP in possession of contractors: Post Jan 2005
 - __3__ Operational Fleet: Post Jan 2005
 - __3__ Assets in inventory: Post Jan 2005
 - __2__ Assets in Depot Maintenance: Post Jan 2005
- Exemptions or exclusions to the UID policy require approval by: Determined by Service
 No items were identified that would completely leave the inventory by 31 Dec 2010.
- 2.3 Identify Key Program trigger events (physical UID marking of items):
- Scheduled maintenance
 - Unscheduled maintenance
 - Physical inventory

Table 2 - Funding

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY2011
Program Resource							
\$Infrastructure	\$xxx	\$xxx	\$xxx	\$xxx	\$xxx	\$xxx	\$xxx
\$Manpower							
\$Training							
\$Total							

DRAFT

SUBMITTED:

Program Manager Name	
Title	
Signature	Date

APPROVED:

Program Executive Officer Name		}	Other Delegated Programs
Title			
Signature	Date		
Component/Service Acquisition Executive Name		}	ACAT 1C Programs
Title			
Signature	Date		
OUSD (AT&L) Name		}	ACAT 1D Programs
Signature	Date		

Note:

- ⇒ All plans are to be forwarded electronically in .PDF format, via the component or service acquisition executive as appropriate, to Robert.Leibrandt@osd.mil.
- ⇒ ACAT 1D program plans are for OUSD (AT&L) approval.
 - Copies of other service approved plans are for the record.