A 5 MINUTE INTRO TO IUID

CAG 22528
SER 5671234

AND CONSEQUENCES OF NON-COMPLIANCE

IUID DEFINITION

Item Unique Identification (IUID) is a system of establishing unique item identifiers (UII) within the DoD by assigning a machine-readable character string or number to a discrete item, which serves to distinguish it from other like and unlike items.

IUID offers unique identification encoding options including **machine readable 2-D barcodes to track and control Property at the item level**.

IUID requires that qualifying items have a **Data Matrix inscribed** either directly on the item or on a permanent machine-readable label affixed to the item.

MIL-STD-130N REQUIREMENT

IUID is a **permanent marking method used to give equipment a unique ID** which is essential for **all equipment** considered to be mission essential, controlled inventory, serially-controlled, or consumable.

It is a common misconception that equipment under $5000 does not require IUIDs. This $5000 rule can be misleading. It's always a good idea to check with your Contracting Officer. The **Government requires IUID compliance for all assets** as well as for any deliverables that are:

1. Items for the U.S. Department of Defense that are serially managed and embedded.
2. DOD items considered mission critical and/or controlled inventory.
3. Items as requested by any requiring entity.
4. Consumable items or material where permanent identification is necessary.

WHY A DATA MATRIX IS REQUIRED FOR EACH IUID ITEM

The Data Matrix only includes the **Unique Item Identifier (UII)**. Since the UII is a primary key field for each record in the DoD's IUID Registry, when the Data Matrix is read, a **computer can find the UII in the IUID Registry and obtain all of the data elements for that item**.

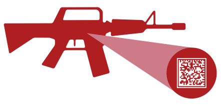
UID VS IUID

UID - Unique Item Identification: Encompasses people, places (real property) and things (tangible property).

IUID - Item Unique Item Identification: Relates to IUID of tangible items. Examples: DoD IUID Policy, DoD recognized IUID equivalent and IUID Registry.

Essentially, UID refers to the Government Program of Uniquely Identifying items while IUID refers to the specific unique identifier for an item - this is called the Item Unique Identifier, or IUID for short. The IUID is the actual number that identifies the item.

IUID LABEL SPECIFICS



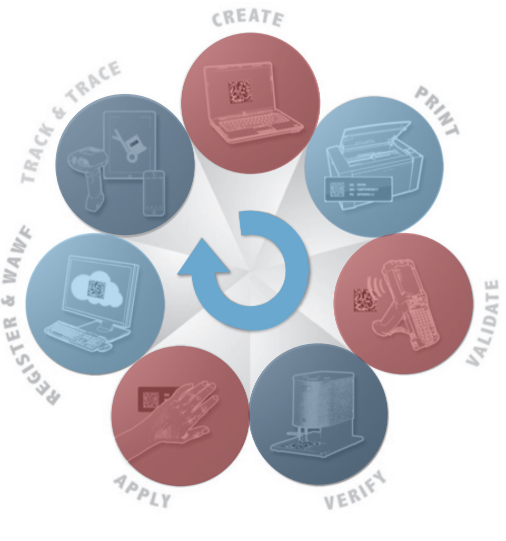
1. IUID requires that qualifying items have a Data Matrix inscribed either **directly on the item** or on a permanent machine-readable label affixed to the item.

2. The Data Matrix contains a set of data elements that can be concatenated to form a Unique Item Identifier (UII). The UII identifies an individual item distinctly from all other items that DoD buys and owns.

3. This information allows DoD to associate valuable business intelligence with an item throughout its life-cycle, thereby providing accurate information for tracking and valuation of items.

MEETING THE ENTIRE IUID COMPLIANCE OBLIGATION

Meeting the entire IUID compliance obligation starts with the creation of a UII (CREATE step) in a database. Follow the steps clockwise. Organizations should be cautioned against skipping any steps to achieve the highest quality result with an audit trail that will satisfy DCMA.



PERSONS AFFECTED BY IUID

Contractors

Military Program Managers

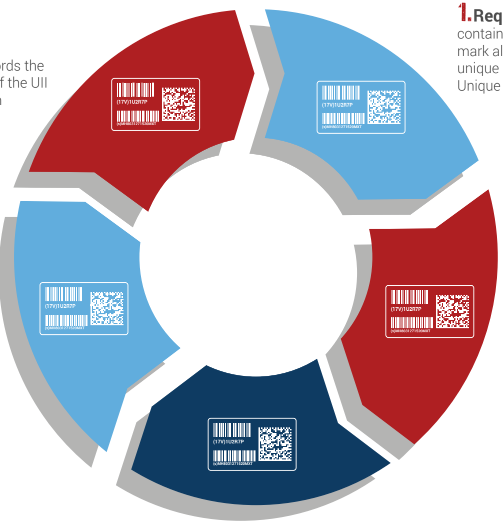
DoD Acquisition Officers

Depot Managers

- IUID is mandatory for **all new solicitations and contracts** issued after January 1, 2004.
- IUID is also required for **all legacy items** with existing serialized items to be registered by 2007 and marking to be complete by 2010. All Government Furnished Property (GFP) must meet the IUID policy requirements by January 1, 2006.

LIFECYCLE OF AN IUID TAG

The IUID enables traceability of the item throughout its life within the DoD inventory and maintenance systems.
The business rules are identified at each phase of the IUID lifecycle.



1. Require- DoD contracts contain the requirement to mark all items requiring unique identification with a Unique Item Identifier (UII)

2. Create/Generate- Industry suppliers and manufacturers throughout the supply chain assign and apply UII data elements and ensure the uniqueness of the component data.

3. Capture- DoD establishes the 'birth' record of the UII capturing the machine readable component, data elements to create the UII in the Automated Information Systems.

4. Use- Functional stake-holders use UII as a primary or alternate key in the AIS to acess or update item information based on its UII.

5. Dispose- DoD/GSA records the 'termination' of the UII at time of item disposal.

HOW LONG TAGS LAST

Labels and tags always have the durability necessary to last the full lifecycle of the item so that its data can be retrieved and analyzed whenever it's scanned.

SOLUTIONS FOR MILITARY ASSET TRACKING

IUID solutions have been used to accurately **identify, mark**, and **track** military assets and equipment located around the world.

A2B lets you accurately manage the equipment and material you're responsible for by ensuring that the asset data you have in your registry is correct, and the labels that mark each asset maintain their integrity throughout the life of the item.

(17V)1U2R7P

(s)MH8031271520MXT

- Identify, mark, and track your legacy equipment with reliable precision.
- Meet Clean Audit and FIAR compliance goals by leveraging our IUID expertise.
- Create a real time, mobile infrastructure to support your short and long-term asset management.
- Capture, store, and access equipment and asset data.
- Establish data redundancy so assets are never lost.

We have the proven systems and **capacity** for identifying each asset in your custody according to its unique data profile--whether you have a **few hundred,** or a **few million.**

We **mark** and **register** every item so you have a full accountability of its identifying traits and location.

We help you track it **around the globe.** And we do it in a way that meets your **time** and **budget** requirements.

A2B has processed over **8 million IUIDs** with our cloud-based tracking and IUID compliance systems.

4,700,000
4.7 Million UID Labels Created

1,750,000
1.75 Million Assets Marked

1-45
1-45 Data Points Captured Per Item

3,750
3,750 Marking Locations Globally

CONSEQUENCES OF NON-COMPLIANCE TO IUID COMPLIANCE

- **Expensive corrective action to resolve non-compliant marks and registration.**
- **Rejected and delayed WAWF payments due to missing, inaccurate or incomplete IUIDs.**
- **Government submission of a Product Quality Deficiency Report (PQDR) to the cognizant contracting office.**
- **Rejected shipment of non-conforming 2D Data Matrix codes.**
- **Customer embarrassment.**

A2B Tracking provides the **asset management systems, software, mobile solutions**, and **services** to help educational and research facilities meet their challenges. These include:

- Asset Tags
- RFID Tags
- IUID Labels & Plates
- Barcode and RFID-based Tracking Systems
- Asset Tracking
- Mobile Technology
- Systems Integration with ERP

Sources:

http://www.acq.osd.mil/dpap/pdi/uid/

http://www.acq.osd.mil/dpap/UID/attachments/UID%20Basic.pdf

http://www.acq.osd.mil/dpap/pdi/uid/docs/IUID_101_The_Basics_v3_05_2010_v2.pdf

http://www.a2btracking.com/solutions/identification-marking/

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