



UNIQUE IDENTIFICATION (UID)

**Joint Aeronautical Commanders
Group UID Working Group
June 9-10, 2004**



Objectives

- Review concept from engine manufacturers for developing single standard for marking
- Discuss and develop strategies for changing engineering drawings to factor in UID
- Discuss policy for legacy data integration



Attendees

Bongiovanni, Nat	Keane
Breckon, Michael	NAVAIR 3.1.5
Chase, Eddie	AFMC/LSO/LOA
Clark, James	Keane
Dills, Thomas	AF/ILI
Harrison, Debra	DCMA
Hollestelle, Corky	Rockwell Collins
Jay, Andrew	Pratt & Whitney: Mfg.
Leibrandt, Rob	OSD - UID Program Office
Lord, Charles	PMA – 257C
Moss, Duane	DSC - Richmond
Myers, Maggie	NGMS
Pollard, JoAnn	OSD SCI
Price, Dana	NAVAIR 3.1.2
Pschunder, Fred	LMC – Engr.
Russhard, Nat	Rolls Royce
Schutsky, Brian	HQ DLA J-3341
Stanislovaitis, Renatas	GE
Sturges, James	LMC
Sumpter, LeAntha	OSD – UID Program Office
Westmoreland, Max	NGIT, TASC
Yee, Merrill	OUSD (AT&L) DS/SE



DCMA General Guidance

- Work with business leaders to develop MOAs
- Keep communication flowing
- Work issues functionally, before bringing it to a cross-functional level
- Ensure that the highest level of approval authority is obtained
 - Break up into pieces
 - Roll up to a top-level proposal
 - Keep signatories to a minimum
- Understand the funding implications



Technical Best Practices

1. If it has a data plate or label, find a spot to add a 2D Data Matrix (may not be compliant on drawing, but can reflect in the drawing on the next update)
2. Change the company marking specifications to say that UID is permissible. Then specific programs can call out as required. Integrate 130/spec/contract guidance.
3. For non-intrusive marking, develop work instructions to manage marking and augment drawings.
4. Maximize use of Class 2 for non-intrusive changes
5. Top level instructions (substitute UID)
6. Consider making a distinction between timing of mark (point of manufacture vs. source)



Strategies for Marking

Specific to Single Process Initiatives, Engines and Electronics

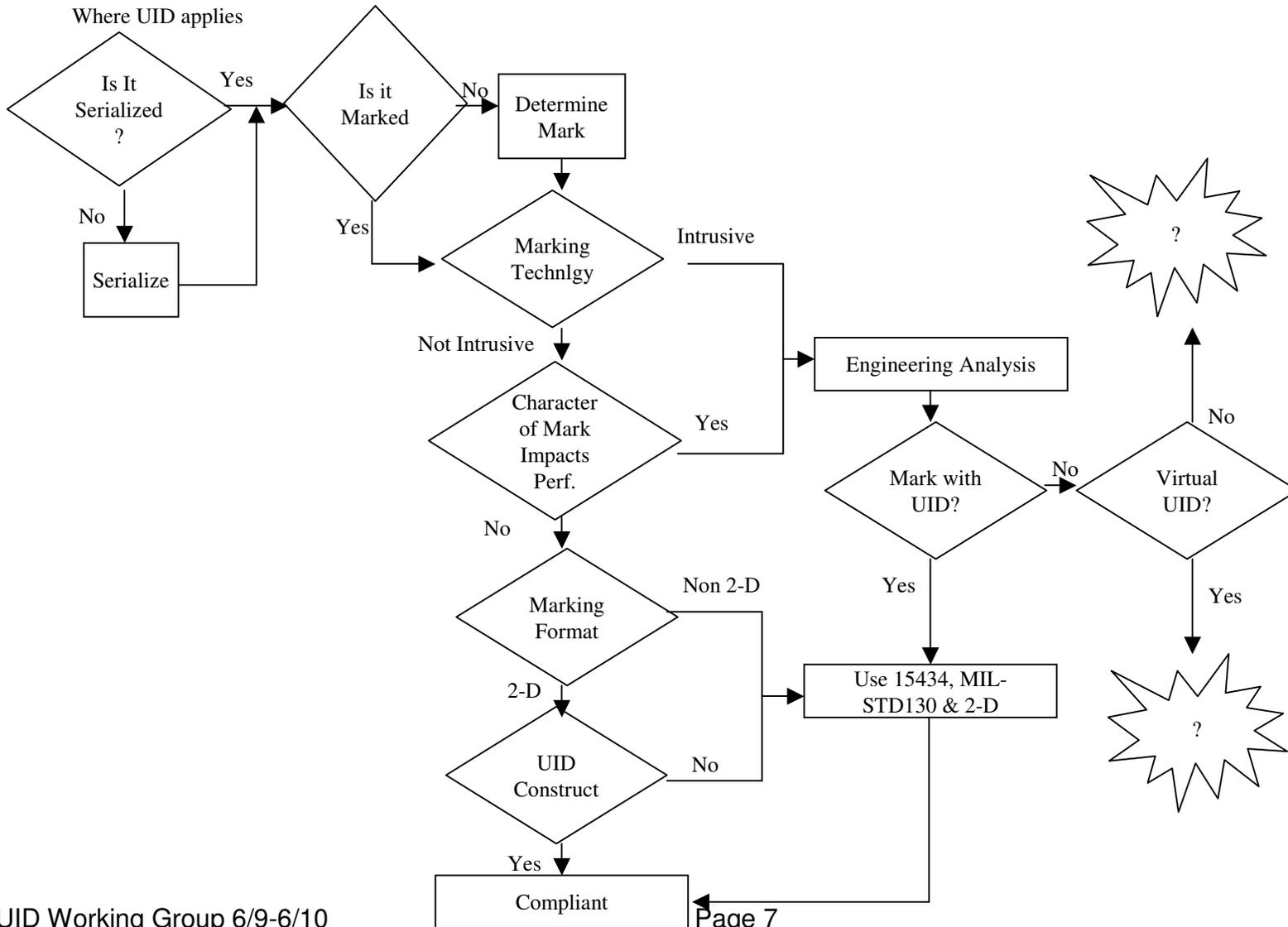
Use Best Practices
1-4 for these

- Low Hanging Fruit
 1. Items that are serialized and marked with a 2D, w/ UID data
 2. Items that are serialized and marked with a 2D, no UID data
 3. Items that are serialized and marked, without a 2D, with UID data
 4. Items that are serialized and marked, without a 2D, no UID data

- 5. Items that are not serialized, but marked
- 6. Items that are too small to mark: bag and tag – (129/130 intersection)
- 7. Not technologically-ready to mark the parts and/or read the mark (e.g., round parts, dark parts)



Marking Strategy Decision Tree





Challenges

- Surplus Dealers
 - Critical
 - Non-critical
- Upgrade costs for marking equipment and process changes
 - vibrapen vs. peen machine
- Map the strategy against “critical parts lists”
- Union of several stakeholders’ lists
- Embedded items not currently marked
- Technology (Marking) maturation issue (can’t mark or can’t read)
- Training/Education - Challenge
 - Vendors (Small vs. Big)



Challenges (cont'd)

- Central business strategies (reduce costs)
 - Data plates, Infrastructure
- Infrastructure
 - Shared knowledge
 - Implementation lessons learned
 - Best practices
- Redundant R&D investments



Topics of Discussion

- Supplier Quality Controls
- Internal Controls
- Verifying technology quality
- Consistent inspection process approach
 - Depots/ICPs
 - DCMA
 - Vendor
- Engineering Guidance



Actions

- Share business cases from UCC (James – Jim Petraghani) w/in a week
- Link to existing websites (associations), vendor guides, and standards (UID Program Office, Keane)
- Assess quality of suppliers
 - Quality of the mark – ensure 130 update is tied to quality standard, socialize, and harmonize standards – on-going
 - Aerospace AS 9132
 - ISO standards (SC 31, WG 3)
 - Quality of the marking process – provide guidance – identify alternative sources that currently exist – Lynn Butler, Nat R., Andy J., for next meeting



Actions

- Vendor guidance for acceptance – (DCMA), Debra H.
 - Debra, LeAntha meet with Dave Guinasso
 - DCMA determine corporate strategy to communicate with ACO's – come back with strawman plan to July 13-14
- Production readiness – Pam M. craft DoD survey, share w/ DLA, DCMA
 - DLA, DCMA & GSA survey suppliers to 1) wake up suppliers, 2) ask questions, and 3) notify of regional workshops, communicate education/training oppty's
 - Possibly ICPs – plant seed at AIT meeting June 22



Actions

- Build on Rolls Royce Vendor Guide and other sources to develop implementation guide – (JACG) team review guide (Nat/James to distribute w/ ballot sheet) comments by June 30
 - Enhance for legacy/used part environment – what would be different – (Rob/LeAntha call, James send, Lt. Col. Clark, Maintenance group to comment on both new and legacy from depot) comments by July 6
- Common parts traceability approach/aerospace approach on serialization– beyond UID (integrate with critical safety items policy) – Nat R. , July 6



Actions

- How to intersect UID registry and Engineering Baseline data
 - Systems integration environment where gov't controls the tech data –.; Merrill/James will send out engineering verbiage, comments back from group w/in a week
 - Systems integration environment where gov't does not control the tech data
 - Identify data elements for legacy in support of legacy policy development – Bruce P., (LeAntha review strategy white paper, update group in a week)
- Provide Honeywell contact information to other engine manufacturers (James) w/in a week



Actions

- Develop reading/verifying standard and guide for reading devices – Brainstorm/Working Group - Eddie to coordinate with Mark R., first cut by July 13-14; James will ping DLA AIT for any guidance
 - Visual readability standards – develop strategy paper – Technology Issues (hardware) – identify existing sources
 - Lighting – Andy J. send James document to distribute
 - Software Algorithm – Max, distribute July 11, with Mark’s alternative
- Develop white paper on the use of Data Matrix (patent issue), socialize with group – Nat B., first cut w/in a week



Actions

- Revise embedded decision tree – on-going (Lynn Butler), distribute to group w/in a week
- Develop a process for company submission and government approval of Single Process Initiatives – Debra coordinate with Penny to review signature authority, develop set of recommendations for next meeting; Engine cos. will identify what they would address in SPI plan by next meeting.
 - For a standard marking universe
 - Data format
 - Mark itself
 - Impact to the Integrated Data Environment
 - Focused on embedded items



Actions

- Engineering Guidance – Mike B., next JACG meeting, Rob L., Merrill Y. conf call with Jeff Allen, Mike B
 - Identify stakeholders for brainstorming
 - Capture best of breed to minimize non-recurring engineering
 - Integrate with Strategies for Marking
 - Collect existing strategies/documents prior - Max
- Reach out to WRA (Lakehurst) to reconcile their serialization method – Dana P., June (email follow-up, may lead to white paper)



Actions

- Brainstorm avionics industry approaches and best practices relative to identification – through GEIA and AIA, JACG – Rob L. (coordinate with next GEIA meeting)
 - Establish separate meeting, small group
 - BAE, Raytheon, Boeing, Northrop Grumman, Honeywell, L3, Rockwell, Harris, Lockheed, Hamilton-Sunstrand
- Schedule UID 101 session for attendees new to UID at JACG July 13-14 meeting - James



Stakeholder Guidance Topics

- PEO/PM Awareness and Implementation Guidance
- Part Marking & Quality – Discrepancies and Acceptance
- Contracting/Finance
- Process Capability (Hardware/Software)
- Engineering Guidance
- Data Management
- Production Readiness



Outcomes from Working Group

1. JACG Guidance to services and vendors
 - Staggered approach to implementation
 - Complement NDIA Educational Series
2. Embedded Decision Tree and Guidance
3. Suggest the community-at-large benefit from the lessons learned across the different entities (suppliers, vendors, services, components)
4. Articulate roles and responsibilities



July Meeting Agenda Items

- Legacy data elements
- Review embedded decision tree