

# A Weapon System's Understanding of the DoD UID Policy

“Some Basic Truths from Lessons Learned by the CH-47”



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Just another Sling Load

*UID is not about Marking  
Parts.*

*UID is about “Intelligent  
Data”.*

*Marking Parts costs Money!*

*Marking Parts yields No ROI  
Today!*



# *UID Policy Means Process Change!*

- Marking Parts.
  - Legacy
  - New
- Capture Error Free Data.
  - DoD Registry
  - Dynamic Service Databases
- Transforming Information Systems.
  - Maintenance
  - Supply
  - Transportation

# *Goals of UID Policy*

- Provide Globally Unique ID.
- Provide Asset Valuation.
- Provide Cornerstone to Total Life Cycle Management.
  - Serialized Item Management.
  - Total Asset Visibility across Enterprise.

# *Implementing the UID Policy*

“To implement a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and **while not imposing unique government data requirements.**”

*What does this mean?*

# Army SNT - DA Form 2410

COMPONENT REMOVAL AND REPAIR/OVERHAUL RECORD						REQUIREMENT CONTROL SYMBOL	
For use of this form, see DA PAM 738-751; the proponent agency is DCSLOG						CSGLD-1052(R3)	
SECTION I - IDENTIFICATION							
CONTROL NUMBER 624882		1. NOMENCLATURE Engine Gas Turbine		2. NSN 2840-01-070-1003		3. PART NUMBER 6035T00G01	
4. SERIAL NUMBER GEE306591		5. CAGE CODE 99207	6. NO. OF PREV O/Hs CC	7. TIME SINCE LAST INST (HRS) 350 0	8. TIME SINCE NEW (HRS) 2766 2769	9. TIME SINCE OVERHAUL (HRS) CC	10. FAILURE CODE 317 99
1. POS 1	12. HSF	13. METER HRS	14. WUC 0A	15. COMPONENT CUMULATIVE COUNT/HOURS			
				a. LCF 1	b. LCF 2	c. TTI	d. OP HRS
16. APU SSN	17. APU HRS	18. APU SSO	19. VERSION	1 0 4 9	7 3 2 3	8 3 0	2 7 9
				+ 0 4 7	7 3 1 7	8 1 8	2 7 6
SECTION II - REPAIR/OVERHAUL/GAIN							
20. REMOVED FROM (NOMEN NHA)			21. NSN (NHA)			22. PART NUMBER (NHA)	
23. SERIAL NUMBER (NHA)		24. HOURS (NHA) 1385		25. NHA CUMULATIVE COUNT/HOURS			
				CF 1	b. LCF 2	c. TTI	d. OP HOURS
26. APU START METER		27. APU HOUR METER					
28. HISTORY RECORDER SN ECD03595			29. HISTORY RECORDER READING				
				a. LCF 1	b. LCF 2	c. TTI	d. OP HOURS
				2 7	1 6 0 3	1 4 7	6 8 5
				2 7 2	1 5 9 7	1 3 5	6 8 2
30. ACFT MODEL UH-60A		31. ACFT S/N 8023426		32. MAINT LEVEL 0		33. UIC (This Action) WOWFAA	
39. DATE CHECKED 96185		40. PID AND TELEPHONE NUMBER AW0980 DSN 861-2361		41. UIC WOWFAA		MANHOURS TO REPAIR/OVERHAUL 203	
43. INSPECTION AND ACTION CODES				44. REASON FOR GAIN		47. ACT FAIL CODE D	48. SRA/ESRA N
(A) SERV		E (E) REPAIR	(G) REBUILT			317	
(B) UNSERV	(D) REMFG	(F) O/HAUL					
REMARKS Total cumulative counts and hours calculated by WOWFAA due to history recorder failure.							

Serial Number

CAGE Code

Part Number

# Navy SNT – NALCOMIS OMA

The screenshot shows the NALCOMIS OMA interface with a 'Work Order Update - Removed' dialog box open. The dialog box contains the following fields:

- MCH: 00002NI
- WUC/UNS: 1513500
- Mal Cd: 374
- Pos Cd: RED
- Buno/Serno: 164176
- REMOVED (status)
- Cage: 07450
- Part Number: 01-21551B42
- Serno: 2163211
- Date Removed: 17 JAN 2001
- CDI Signature: [empty]

Callouts from yellow boxes point to the following fields:

- Serial Number** points to the Serno field (2163211).
- CAGE Code** points to the Cage field (07450).
- Part Number** points to the Part Number field (01-21551B42).

Buttons at the bottom of the dialog include 'Cancel' and 'Apply'. A 'Sort By' button is located below the dialog. The status bar at the bottom shows 'Ready', '(0104', and 'User OTTA'.

# Air Force SNT – Form GO-81

AMC Graphical User Interface on LYNX - [G081 Session]

File View Connection Options Window Help

PA1 PA2 Send/Enter Disconnect Clear Screen Text Screen GUI Screen G081 Help

Screen: g021

MAMU9021 ON-LINE SICR PROGRAM

TRANSACTION S PASSWORD CEI MC0637D SERIAL NUMBER 0000000938

PART NUMBER 2248000-41 NHA CEI MA0001D NHA SERIAL NUMBER 0001000193

LOCATION CODE DKFX AF ACCEPTANCE DATE 02289 CAGE CODE 98571 STATUS M

TOTAL HOURS 01791.9 TOTAL CYCLES TSOH 0178.7 CSOH

TOTAL ENGINE FLIGHTS 000000 TOTAL LANDINGS 000619 ID NUMBER

LAST OVERHAUL AGENCY DATE LAST OVERHAUL TSO LAST INSPECTION

DATE LAST OIL CHANGE DATE OIL SAMPLE TAKEN DATE INSTALL 02198

CONFIGURED ARTICLE C WUC/REFDES 3133RC001 MADAR BOLT # POSITION

DATE OF LAST STATUS CHANGE 02198 % OF EXTENDED LIFE BUILD INTVL

WARRANTY DATE WARRANTY INDICATOR N CONTRACT # CFE

ADJUST CYCLES BY (EX: 000012) ADJUST HOURS BY (EX: 00012.5)

VALID TRANSACTIONS: A-ADD, C-CHANGE, D-DELETE, S-SCAN, F-FIX LINKAGE PROBLEMS,  
Y-ADD HRS/CYS TO ENG COMPONENTS, Z-SUBTRACT HRS/CYS FROM ENG COMPONENTS.  
ALL DATES ARE JULIAN (POSITION YEAR AND 3 POSITION DAY).  
ALL FIELDS USING HOURS ARE OF THE FORMAT 99999.9. YOU TYPE IN THE DECIMAL.  
ADJUST CYCLES ARE HHHH FOR C17, ALL OTHERS ARE 9999999 WITH NO DECIMAL.

ACTIVITY ACCEPTED

Serial Number

Part Number

CAGE Code

Ready... [INS] [NUM] [CAPS] [SCRL] [R2,C14] 21:40 Zulu

Start | Inbox - Microsoft ... | ATMGOV | AMC Portal - Nets... | Microsoft Outlook | AMC Graphical U... | 1:41 PM

# *The Transition State of UID Implementation*

- Existing Information Systems in place.
- New Information Systems.
- Existing parts.
  - Human readable information.
- New and Legacy parts.
  - UID with Machine Readable Code.
- Exists for 10+ years until over 80% coverage.

*How did the Cargo PMO select a path forward?*



# *PM Cargo UID Solution*

## *Construct 1*

- 2-data element configuration for UID.
- Re-serialize existing parts with Government CAGE.
- 3-data elements on part.
- Only current part number on label.
- Interoperable with Current Information System.



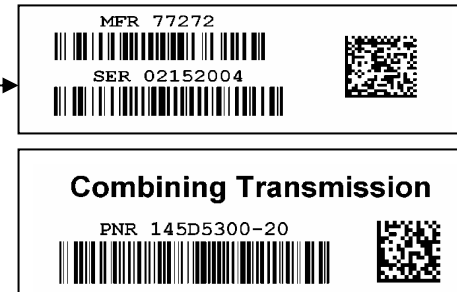
# Combiner Transmission Construct #1 Utilizing TEIs

## New Part from Manufacturer



Must be guaranteed by  
Manufacturer CAGE code

## Modified Part



## Existing Part Marked by Government



3 Data  
Elements

Marked using  
Government Cage Code

## Modified Part



# *Current Implementation Status w/ Cargo PMO*

- New Maintenance Information System being fielded to Fleet.
- Part Numbers Targeted for UID
  - 1175
- Part Numbers approved for marking.
  - 136
- Total Parts marked in the field.
  - 786



*Intelligent Data*

*means*

*Shared Data – Shared Benefits*



### Commander's Dashboard - Unit: WP1DAA

**Timelines**

- Readiness
- Operational
- Phase/Reset
- Alterations

**Last Month Readiness**

**Current Month Readiness**

**Last Month MTF Ratio**

**Yesterday's Readiness**

**Bank Time = 650 hours (92 hours/AC)**

**Last Month Usage**

**Current Month Usage**

**Year to Date Usage**

**Last Month MTF Usage**

**Trends**

- Readiness
- Utilization

**Analysis**

- Reliability
- Experience
- Maint Planning

S/N 8700100 Hours 5354.5 Phase 5554.5 Fly to 19.7	S/N 9100269 Hours 4460.3 Phase 4661.4 Fly to 0.0	S/N 9100270 Hours 3916.8 Phase 3952.6 Fly to -3.7	S/N 9200281 Hours 2026.9 Phase 2182.0 Fly to 45.1	S/N 9200282 Hours 3534.2 Phase 3596.9 Fly to -12.0	S/N 9200287 Hours 3850.2 Phase 4040.7 Fly to 45.3	S/N 9200288 Hours 2140.1 Phase 2147.0 Fly to 2.5	

## Installed Parts for LCN 05B01KG

Aircraft	Part No.	Serial No.	Part	Lcn	Alt Lcn	Lcn Name	Subsystem	Subsys Name	Cage Code	Fitted	Operated	Threshold	Cumulative	Remaining
8424158	114R2197-7	A401AC	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Sep 23, 2003 12:00:00 AM	Sep 23, 2003 3:38:42 PM	4800	3828.2	971.8
8424154	114R2197-7	RL1566	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Sep 29, 2003 12:00:00 AM	Nov 29, 2003 12:06:00 PM	3515	1403.18	2111.81
8700096	114R2197-7	RL3510	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Aug 16, 2003 12:00:00 AM	Jan 11, 2004 2:00:00 PM	3600	3443.55	156.45
8700100	114R2197-7	RL5029	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Jun 26, 2003 12:00:00 AM	Jun 26, 2003 4:24:31 PM	4820	2961.5	1858.5
8900135	114R2197-7	TZ-1021	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Nov 7, 2003 12:00:00 AM	Nov 7, 2003 10:07:26 AM	3330	1162.8	2167.2
9200282	114R2197-7	TZ1281	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Jun 25, 2003 12:00:00 AM	Jan 26, 2004 12:00:00 PM	5957	3871.2	2085.8
8700083	114R2197-7	UW736A	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Nov 19, 2003 12:00:00 AM	Jan 15, 2004 12:20:00 PM	3844	1639.7	2204.3
8900130	114R2197-7	VM-5679	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Dec 1, 2003 12:00:00 AM	Dec 1, 2003 9:44:18 AM	4800	2879.1	1920.9
8524345	114R2197-7	VM1221	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Dec 9, 2003 12:00:00 AM	Feb 18, 2004 10:50:00 AM	3999	1692.49	2306.5
8324124	114R2197-7	VM1619	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Aug 15, 2003 12:00:00 AM	Feb 17, 2004 11:07:00 AM	4162	3362.03	799.96

# *Summary*

- Reducing burden on Soldier is Priority One!
- UID/AIT is the key enabler to execute logistics transformation.
- Long term commitment required.
  - Will not happen overnight for legacy systems.
- Return on investment occurs only after Information systems are brought on line.
- Resourcing will require aggressive and innovative management.



# *Thought Piece!*



