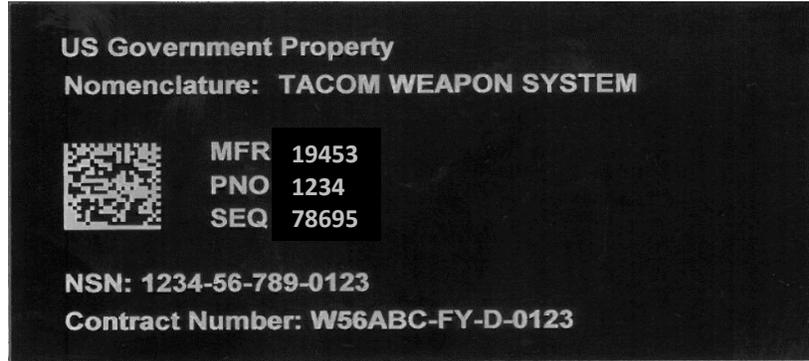


Attachment 0023: Sample IUID Data Plates

Figure 1 depicts a sample data plate with data elements encoded in accordance with (IAW) a notional UII using identifier Construct 2. Figure 2 shows a sample validation/verification report for the sample data plate in Figure 1.



2-D Matrix (Raw Scan): []><RS>12<GS>MFR19453<GS>PNO1234<GS>SEQ786950<RS><EOT>

“Derived” Unique Item Identifier (UII): D194531234786950

Figure 1. IUID Marking Sample.

The 2D matrix will either Pass or Fail →

Validation →
Was the 2D matrix encoded correctly?

Unique Item Identifier (UII) and Raw Scan →

Verification →

Elements the 2D Matrix is measured Against and graded

Verifier Calibration Results →

Standards →
Used to grade the mark

Microscan UID Compliance Results

MICROSCAN

PASS

Syntax/Semantics: PASS - UII
Mark Quality: PASS
Result Sequence Number: 00000136
July 18 2018 13:09:07

Data Validation
UII Construct: CONSTRUCT_2
Data Qualifier: ISO_TEI
Data Element 1: MFR 19453
Data Element 2: PNO 1234
Data Element 3: SEQ 786950

UII: D194531234786950
Raw Data: []><RS>12<GS>MFR19453<GS>PNO1234<GS>SEQ786950<RS><EOT>

Mark Quality Verification - MIL-STD-130M (AIM DPM-1-2006)
Variance to Override Cell Size Restrictions Enabled

Overall Grade:	3 (B)	DPM3.0/11/640/90
Cell Contrast Grade:	4 (A)	Value = 63%
Axial Non-Uniformity Grade:	4 (A)	Value = 0.50
Grid Non-Uniformity Grade:	4 (A)	Value = 0.10
Unused Error Correction Grade:	4 (A)	Value = 1.00
Fixed Pattern Damage Grade:	3 (B)	
Cell Modulation Grade:	4 (A)	
Reference Decode Grade:	4 (A)	
Min Reflectance Grade:	4 (A)	Value = 18%
Cell Size:		Value = 0.0213 INCHES
Print Growth:		X / Y = 11% / 6%
Size:		Height / Width = 0.47414 / 0.46961 INCHES
Angle:		0 Degrees
ECC Level:		ECC200

Calibration: Selected Light: 90 Calibrated Since Restart - Last: July 13 2018 06:49:39

Exposure=65535	Gain=263	Aperture=11	Wavelength=640
Cal. Target Contrast=80%	Calibrated Since Startup=TRUE		Pixels/Inch=662
Min/Max Raw Contrast Values=0/141	Reader Name=ccadqcg3417ic		SW / FW= v2.3.1.9 / 2.4.1.9
Cal. Exposure=14806	Cal. Gain=263	Cal. Black Offset=0x012D	Secure Camera=FALSE
Mean Light/Cal. Mean Light=163/170	Min/Max X Dimension Limits=7.5/25.0		Cal. Target Reflectance=85%
Aperture Percentage=50			

Standards:

MIL-STD-130L - 1/1/2004	MIL-STD-130L (Change 1) - 12/20/2004	MIL-STD-130M - 12/2/2005
MIL-STD-130M (Change 1) - 6/15/2007	Guide to Uniquely Identifying Items v1.6	DFARS 252.211-7003 - 6/2005
ISO/IEC 16021:2006	ISO/IEC 15415:2004	ISO/IEC 15418:1999
ISO/IEC 15434:2006	AIM DPM-1-2006	ANSI MH10.8.2 - 2006
ATA SPEC2000 Chapter 9	ATA CSDD	SAE AS9132A - 2/16/2005
MIL-STD-130N - 12/17/2007		

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Figure 2. IUID Marking Validation/Verification Sample Results.