

QCTS

Government Owned IUID Tools



Applied Enterprise Solutions

DASN Tools for Implementing IUID

- ① **What** is QCTS?
- ② **What** are the QCTS tools?
- ③ **What's** next for QCTS?

QCTS is a web based suite of tools that **simplify** and **expedite** compliance with the IUID mandates.



QCTS is **Government** owned.

QCTS tools can be used
without rewriting existing
software.



They can be used from **any** location via the web.

The image shows four different types of barcode scanners arranged on a wooden surface. In the top left is a yellow and grey handheld scanner. In the top right is a white handheld scanner with its lens cover open, revealing internal components. In the middle is a grey handheld scanner. In the bottom right is a white handheld scanner. In the bottom left is a grey handheld scanner with a yellow trigger. All scanners are connected to cables.

They can be used with a **variety** of equipment.

Problem:
How do I determine if an
item is **registered**?



Menu

- Home
- UID Registry Lookup
- UID Parser
- UID Compliance
- UID Generate
- UID Register
- Item Marking

UID Registry Lookup

Scan

Upload Image

UID Contents

UII:

UID:



Status: Data Item Found in Registry

Raw UID: `[]> <R/S> 06 <G/S> 17V 16331 <G/S> 1P 63A158097P1 <G/S> S B333562 <R/S> <EOT>`

Results

IAC:	<input type="text" value="D"/>
Original Part Number:	<input type="text" value="63A158097P1"/>
Serial Number:	<input type="text" value="B333562"/>
Status:	<input type="text" value="Successful"/>
UII:	<input type="text" value="D1633163A158097P1B333562"/>

Problem:
How do I know what **data** is
in the IUID Data Matrix?



Menu

- Home
- IID Registry Lookup
- IID Parser
- IID Compliance
- IID Generate
- IID Register
- Item Marking

IUID Parser

Scan

Upload Image

IUID Contents

UII:



Status: UID passed error check.

Raw UID: [] <R/S> 06 <G/S> 17V 16331 <G/S> 1P 63A158097P1 <G/S> S B333561 <R/S> <EOT>

Results

Construct:	<input type="text" value="2"/>
Format Code:	<input type="text" value="06"/>
Enterprise Data Qualifier:	<input type="text" value="17V"/>
Enterprise Identifier:	<input type="text" value="16331"/>
Part Data Qualifier:	<input type="text" value="1P"/>
Part Number:	<input type="text" value="63A158097P1"/>
Serial Data Qualifier:	<input type="text" value="S"/>
Serial Number:	<input type="text" value="B333561"/>

Problem:
How do I know that the IUID
Data Matrix is **valid**?



Menu

- Home
- UID Registry Lookup
- UID Parser
- UID Compliance
- UID Generate
- UID Register
- Item Marking

UID Compliance Test

Scan

Upload Image

UID Contents

UII:	D1633163A158097P1 B333554
Format:	06
IAC:	D
Enterprise Identifier:	16331
Serial Number:	B333554
Original Part Number:	63A158097P1
Construct:	2



Raw UID: `[]> <R/S> 06 <G/S> 17V 16331 <G/S> 1P 63A158097P1 <G/S> S B333554 <R/S> <EOT>`

Results

UID passed error check.

Problem:
How do I **create** a Data
Matrix?

Menu

- Home
- IID Registry Lookup
- IID Parser
- IID Compliance
- IID Generate
- IID Register
- Item Marking

IID Generate

Select Construct:

Issuing Agency:

Enterprise Identifier:

Part:

Serial:

Results

UII: D163312243783275906123142



Raw UID: []><R/S>06<G/S>25SD163312243783275906123142<R/S><EOT>

UID passed error check.

Problem:
How do I **register** an item?

Menu

- Home
- UID Registry Lookup
- UID Parser
- UID Compliance
- UID Generate
- UID Register
- Item Marking

UID Register Item

Scan

UID Contents

UII:



Status: Not Registered

Raw UID: [] <R/S> 06 <G/S> 17V 16331 <G/S> 1P 63A158097P1 <G/S> S B333560 <R/S> <EOT>

Item Information

* Description:	<input type="text" value="50 LB TUMBLER/DRYER"/>
Cost:	<input type="text" value="5421"/>
Currency Code:	<input type="text" value="USD"/>
Unit of Measure:	<input type="text" value="EA"/>
Enterprise Identifier:	<input type="text" value="16331"/>
Issuing Agency Code:	<input type="text" value="D"/>
Serial Number:	<input type="text" value="B333560"/>

* *Required*

Submit

Results

Problem:
How do I **register** an
unmarked item?

Menu

- Home
- UID Registry Lookup
- UID Parser
- UID Compliance
- UID Generate
- UID Register
- Item Marking

Item Marking

Scan

UID Contents

UII:



Status: Not Registered

*Warning 2: UID Contains Unneeded Additional Data.
UID passed error check but with warning(s).*

Raw UID: []> <R/S> 06 <G/S> 18S 05HX0P2994 <G/S> 17V 05HX0 <G/S> S P2994 <R/S> <EOT>

Item Information

* **Description:**

Cost:

Foreign Currency Code:

Unit of Measure:

Select Fields

Submit

* *Required*

Results

Successfully submitted to the database

QCTS Tools in **Development.**

- ✦ Mobile **QCTS**
- ✦ Data Matrix **Builder**
- ✦ XML File **Verifier**
- ✦ **Scanner** Wiki
- ✦ Registry Item **Update**
- ✦ Registry Item **Delete**
- ✦ Excel File **Upload**

- ✦ Navy **Central** UID Database
- ✦ Non-intrusive Front End (**NiFE**)

BACK UP



IUID Data Constraints

Must be encoded into an ECC200 Data Matrix
2-D barcode

Must include semantics

Ull ≤ 50 characters

A through Z 0
no lower case

The Ull must be

The Ull must be



Violated Constraint Examples



No Semantics
(i.e. [>, r/s, g/s, eot, DIs])

Ull too long
50 characters max!



E23473QT123AQ153

LDN624267OSC1234672-CABLE/COAX293-18L58P9G21GGM93285



2-D barcode is a PDF417
Must be an ECC200 Data Matrix

D23473KPH-123456LP-3908



D23473WFH-1234563548A



D23473WFH-1234563548A

Duplication

Uses forbidden characters



D9C8544-203,3-2784a983451

Finder Pattern

Hello
ECC200

2008

Quiet Zone
Clocking Pattern

Data



01100110 = 102

ASCII → "e"

Hello World!

Turning a Data Matrix

2008

ARLINGTON



kind of

Semantics

[>R/s06G/s17V98345G/s1PT123G/

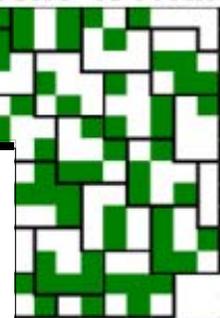
Format Code:
Data Identifiers:
Enterprise Identifier:
Part Number:
Serial Number:

Unique Item Identifier (UII) : D98345T123531

2008

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2008



TO

2008

Forum
Suppliers

UID?



is an IUID

An IUID is always a data matrix
A data matrix is not always an IUID

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