Industry Solutions for Auto ID

UID Format Verification

UID policy

The Department of Defense defines the UID number as:

 The set of data for tangible assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faced business applications and users.

The UID applies to:

- Items >/= \$5,000
- Items < \$5,000 as directed by requiring activity
- Subassemblies, components and embedded items
- Commonly accepted commercial marks

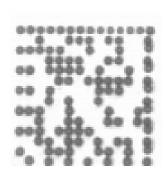
Sample UID:

• Symbol contrast – lets the user know if contrast settings are less than acceptable.



UID number format

Example of UID number constructed by an imager:



Encoded Data:

[)>{RS}DD{GS}CAG987654{GS}SERMKLJHUIYD{RS}{EOT}

Constructed UID Number:

D987654MKLJHUIYD

Eliminates the need for custom programming.

UID mode features

The MS-Q's UID mode provides the following features:

UID-Only Enabled

Allows the MS-Q to read UID data strings encoded on ECC 200 Data Matrix symbol and to send the UID numbers to the hose computer. The imager will not read any other symbol data when UID is enabled.

UID-Only Enabled with Error Messaging Allows the MS-Q to recognize and decode only UID symbols. In addition, the imager will send an error message to the host if the UID format is incorrect.



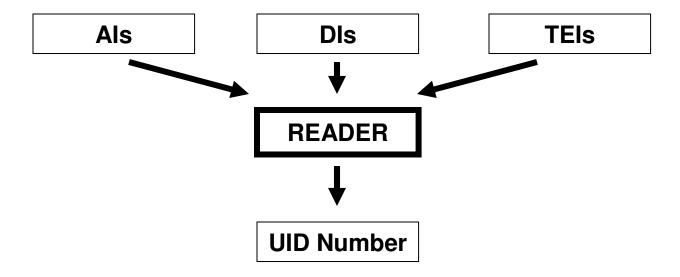
UID Enabled with Pass Through Allows both UID-encoded symbols and non-UID symbols to be decoded and sent to the host.

UID Enabled with Error Messaging and Pass Through

Allows the MS-Q to decode UID symbols and non-UID symbols, and to provide error messages if UID format is incorrect.

All of these formats can be used

Hardware solutions are available that can construct the UID number from any of these identifiers



UID format verification

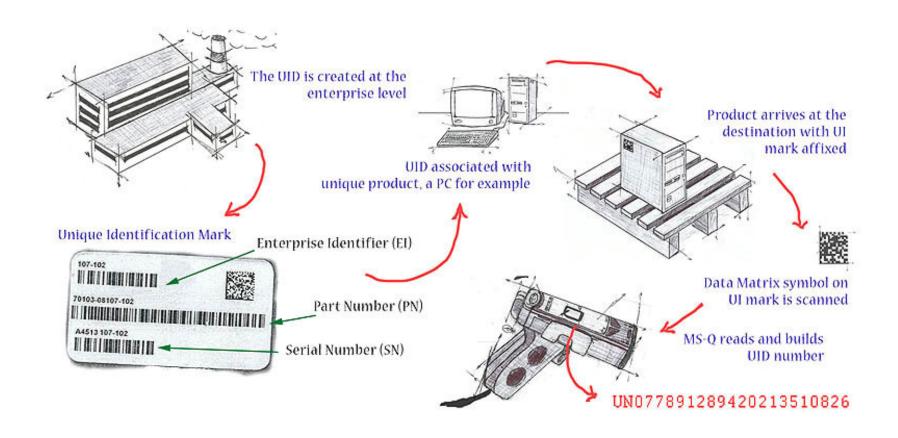
- The MS-Q provides suppliers with UID format verification
 - Software enables the DoD supplier to scan their UID symbols and verify that the information is in the correct format:
 - If the format is incorrect, the MS-Q will generate an error message, stating the symbol is a bad UID symbol and the reason why it violated the specification.



- Error Messaging covers the following:
 - Invalid preamble
 - Invalid format
 - Invalid AI
 - Invalid DI
 - Invalid TFI
 - Spaces

- Lower case characters
- Invalid characters
- UID too long
- Part number too long
- Serial number too long
- EID number too long

MS-Q works throughout the DoD supply chain



More information

- If you would like further information about UID or direct part marking, we recommend you view the additional seminars in the DPMI series, such as *Factors that Determine Symbol Readability*.
- If you have questions regarding the MS-Q and reading UID codes, send us an e-mail to training@microscan.com