



REPLY TO  
ATTENTION OF

## DEPARTMENT OF THE ARMY

PROGRAM EXECUTIVE OFFICE  
ENTERPRISE INFORMATION SYSTEMS

PRODUCT MANAGER  
JOINT - AUTOMATIC IDENTIFICATION TECHNOLOGY  
8580 CINDER BED ROAD, SUITE 1400  
NEWINGTON, VIRGINIA 22122

August 28, 2006

SFAE-PS-EI-AIT

MEMORANDUM FOR DoD Activities With Requirements to Read Data Matrix Symbology and Vendors of Data Matrix Imaging Devices

In support of DoD's Item Unique Identification (IUID) initiative, the Army's Product Manager, Joint Automatic Identification Technology will be conducting an assessment of commercial data matrix symbol imaging devices (commonly called bar code readers). Manufacturers will be invited to demonstrate the reading capabilities of their imagers against scenarios representing the real world conditions under which DoD organizations must read data matrix symbols. The results of the demonstrations will be disseminated within DoD. The bottom line objective is to assist organizations in screening imagers on the market to identify those that are capable of meeting DoD organizations' specific imaging needs.

The key to success is obtaining detailed descriptions of the marks that must be read and the environments in which the reading will take place. Each combination of a mark and an environment constitutes a Use Case. To test the ability of an imager to read the same mark in two different environments, submit two use cases. Use cases will be replicated at the PM J-AIT's engineering laboratory and the capabilities of industry's imaging products demonstrated on each.

The greatest beneficiaries of this process will be those DoD activities that submit use cases. Only by submitting your use case or cases can you ensure that the myriad of imaging devices are tested against your specific reading situation.

DoD elements desiring to submit use cases should request to be added to our user e-mail list and will receive detailed instructions for the submission of use cases when that information is finalized. Vendors of area imagers interested in demonstrating their products should likewise request inclusion on our vendor e-mail list to receive additional information on that activity. Forward all requests to [john.domin@us.army.mil](mailto:john.domin@us.army.mil).

You may direct any questions to John Domin at his e-mail address, or telephone (570) 895-7875.

The deadline for use case submission will be mid-October 2006. Vendor demonstrations have been tentatively scheduled for mid-November through mid-December 2006.

DATA MATRIX IMAGER DEMONSTRATION  
USE CASE DESCRIPTION

Submitted by:

Name:
Organization:
Mailing Address:
Email Address:
Phone Number:

Technical Description of the Mark (**if no sample provided**)

Item marked (name and NSN or Part Number if assigned):
Is the mark directly on the item, on a data plate, on a label, or other?
Material to which the mark is applied (metal, plastic, etc):
Surface color of the material to which the mark is applied:
Item's Surface Characteristics (flat surface, curved, coated, polished, rough, etc.):
Marking Method (Dot Peen, Laser Etch, Label, etc):
Mark Cell Size (10 mil, 15 mil, etc) (If cell size is unknown, what are the data matrix symbol's dimensions (in mm)?
Approximate number of characters encoded in the data matrix:
Based on the environment the mark is exposed to, is it likely to be (worn, dirty, grease covered, etc.) by the time you need to read it?

Describing the Environment Where the Mark is Read (whether sample is provided or not):

Location: (Indoors, outdoors)
Describe Lighting Source: (sunlight, incandescent bulb, fluorescent,?)
Describe light intensity (you may specify multiple intensities): (very bright, bright, medium, dim, dark)
Describe Working Conditions that might affect your ability to read a mark (cleanliness, inability to get reader within 8 inches of mark, etc.):