IN REPLY
REFER TO

December 5, 2001

DLMSO

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC)

SUBJECT: Approved DLMS Change (ADC) 44, Two-dimensional Symbol on Issue
Release/Receipt Document (DD Form 1348-1A) (Staffed as PDC 61)
(Supply/MILSTRIP)

The forwards approved changes to DoD 4000.25-1-M, Military Standard
Requisitioning and Issue Procedures (MILSTRIP), and DoD 4000.25-M, Defense
Logistics Management System (DLMS). This change represents a process improvement
and is approved for implementation under OSD guidelines for changes to the DLSS. A
staggered implementation is authorized. Current estimated dates for implementation
planning are: USN - October 2005; USAF - December 2002; USMC - in progress; and
DLA – May 2002. Components should notify DLMSO of actual implementation dates or
date range.

Addressees may direct questions to the DLMSO points of contact, Ms. Ellen
Hilert, Co-Chair, Supply Process Review Committee, 703-767-0676, DSN 427-0676,
or e-mail: ellen_hilert@hq.dla.mil or Ms. Vermella Saváge, DoD MILSTRIP System
Administrator, 703-767-0674, DSN 427-0674, or e-mail: vermella_savage@hq.dla.mil.
Others must contact their Service or Agency designated representative.

JAMES A. JOHNSON
Director
Defense Logistics Management
Standards Office

Attachment

cc:
ADUSD(L)SCI
LMI

ADC 44
Two-dimensional Symbol on Issue Release/
Receipt Document (DD Form 1348-1A)

1. **ORIGINATOR**:

    a. **Service/Agency**: HQMC/LPC-5

    b. Originator(s): Ricky Morton, HQMC/LPC-5

2. **FUNCTIONAL AREA**: Supply

3. **REQUESTED CHANGE**:

    a. **Title**: Two-dimensional Symbol on Issue Release/Receipt Document (DD Form 1348-1A).

    b. **Description of Change**: Current guidance establishes the three-of-nine bar code as the standard symbology for the automated marking and reading of items of supply, equipment, materiel packs, and containers in logistics operations throughout the DoD. The symbology is to be applied in accordance with MIL-STD-129 unless otherwise authorized. This change would add a two-dimensional symbol (Portable Data File (PDF) 417) that will encompass the current linear bar code data elements plus additional elements. This change will allow the user to scan one bar code versus three and provide a better error correction level.

    c. Procedures:

        (1) Revise DoD 4000.25-1-M, Chapter 5, paragraph C5.1.6, as follows:

The three-of-nine bar code *and PDF417*, as defined in MIL-STD-1189B, *are* established as the two standard symbologies for the automated marking and reading of items of supply, equipment, materiel packs, and containers in logistics operations throughout the DoD….

        (2) Insert new DoD 4000.25-1-M, Appendix AP1.35 (see enclosure).

4. **REASON FOR CHANGE:** The current bar code label does not incorporate the benefits of 2D technology or DoD's move towards ANSI MH10.8 (data syntax and semantics).

5. **ADVANTAGES AND DISADVANTAGES:**

a. Advantages: This change would provide receiving activities a much greater level of scanning proficiency than the current three-of-nine bar codes with its error correction. Receiving activities that modify their scanning and automated information systems can scan one symbol versus three. The change outlined here has been presented through the DoD AIT Logistics Standards Group.

b. Disadvantages. The DoD Components will have to modify printing software programs to accommodate the 2D symbol.

6. **IMPACT:**

a. Data Content/Procedures: None.

b. Publication(s):

(1) DoD 4000.25-1-M, MILSTRIP
(2) DoD 4000.25-M, DLMS
(3) Component implementing publications, as required
(4) MIL-STD-1189
(5) MIL-STD-129

AP1.35 APPENDIX 1.35
ISSUE RELEASE/RECEIPT DOCUMENT (IRRD) (1348-1A)
WITH THREE-OF-NINE BAR CODING AND
TWO-DIMENSIONAL (PDF-417) SYMBOL

DOC IDENT	RIC FROM	M & S	U I S S T	QUANTITY	SUPPLE-MENTARY ADDRESS	S I G	F U N D	DIS-TRI-BU-TION	PRO-JECT	P R I	REQ'D DEL DATE	A D V	RI	O / O P	C O G M T D		1. TOTAL PRICE			2. SHIP FROM DEFENSE DIST DEPOT SUSQUEHANNA NEW CUMBERLAND PA 17070		3. SHIP TO WK4FV9
																	UNIT PRICE	DOLLARS	CTS	SW3124		
A51	S9I	Y	EA	00004	WK4FV9	L	0V		Q		SCN 02	999	2L	SNI	AA		DOLLARS 00001	CTS 12	4 48	4. MARK FOR WK4FV9		

24. DOCUMENT NUMBER & SUFFIX (30-44)	5. DOC DATE	6. NMFC 999912	7. FRT RATE	8. TYPE CARGO	9. PS U
W90GF882962058	10. QTY REC	11. UP	12. UNIT WEIGHT 0.04	13. UNIT CUBE 0.008	14. UFC	15. SL 0
	16. FREIGHT CLASSIFICATION NOMENCLATURE				

17. ITEM NOMENCLATURE
LOOP,STRAP

25. NATIONAL STOCK NUMBER (8-22)	18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE
5340013145957	22. RECEIVED BY		23. DATE RECEIVED	
	28. ISSUED BY AND DATE		29. SHIPPED BY AND DATE	

26. RIC (4-6)
UI (23-24)
QTY (25-29)
COND (71)
COG (55-56)
UP (74-80)

S9IEA00004A   0000112

ULTIMATE CONSIGNEE/MARK FOR

223 SUPPLY SUPPORT ACTIVITY
WAREHOUSE BUILDING 1054
CAMP LEJEUNE, NC 12345

27. ADDITIONAL DATA

[Note: Above sample for illustration only.   Implemented version may differ in placement and size of 2-D symbol].

Two-Dimensional (PDF-417) Label Format

Corrected Page

Compliance Character	Data Identifier/ Data Element Identifier [1]	Data Field (DoD Usage)	Data Format (Type/Length)	Sample Data (Identifier and Data Field)	Element Separators	Total Characters [2]
[)>		Format Header Text	a3	[)>	R S	4
06		**Data Identifier Format** (ANSI Standard)	n2	06	G S	3
	12S	**Document Number** Includes Suffix Code when applicable	an14..an15	12SM1200120010001A	G S	19
	N	**National/NATO Stock Number (NSN) or Stock Identification Elements** May reflect NSN, CAGE Code/part number, FSC, etc., as applicable. May also include associated coding, e.g., Type of Pack, USN Special Material Identification Code (SMIC) or USAF Materiel Management Aggregation Code (MMAC)	an..15	N7420014522690	G S	17
	7Q	**Quantity and Unit of Issue** Do not include leading zeros	An..5+an2	7Q1EA	G S	10
	V	**Routing Identifier Code**	an3	VML1	G S	5
	2R	**Condition Code**	an1	2RA	G S	4
	12Q	**Unit Price** Configured as **5** digits whole dollars, decimal, and 2 digits cents followed by "USD" indicating U.S. dollars. Do not include leading blanks.	n..5.n2+an3	12Q12345.12USD	G S	15
	5P	**National Motor Freight Classification Commodity Number**	n6	5P999912	R S	9
07		**Data Identifier Format** (ANSI Free Text)	n2	07	G S	3

[1] / "**Data Identifiers**" (Compliance Character 06) pertain to American National Standards Institute (ANSI) authorized data elements. Refer to ANSI MH10.8.2, American National Standard for Material Handling, for additional information. "**Data Element Identifiers**" (Compliance Character 07) pertain to DoD authorized data elements. Refer to www.dodait.com for additional information.

[2] / "**Total Characters**" reflects length of data identifier/data element identifier + data field + element separator.

	Code	Field Name	Format	Sample		Chars
	03	**Project Code**	an3	031CF	^G_S	6
	B6	**DoD Distribution Code** Three-position field must reflect blanks as applicable. Blanks may be located in any position.	an3	B6_7V	^G_S	6
	27	**Consignee DoDAAC** Reflects ship-to DoDAAC (Block 3)	an6	27M12001	^G_S	9
	38	**Nomenclature**	an..20	38Oil_Filter	^G_S	23
	32	**Required Delivery Date (RDD)** May reflect RDD in DDD format or special codes, e.g., expedited shipment and handling (Code 999), Not Mission Capable Supply (NMCS) (Code N__), etc.	an..3	32999	^G_S	6
	B7	**Requisition Priority Designator (PD)**	n2	B703	^G_S	5
	B8	**Partial Shipment Indicator**	a1	B8P	^G_S	4
	81	**Supplementary Address** Derived from rp 45-50 of the requisition	an6	81M12003	^R_S ^R_S **EOT**	10
Total Characters Required Including Formatting						157

All data identifiers are alphanumeric characters.

a = Alphabetic Data

an = Alphanumeric Data

n = Numeric Data

.. = Variable Length (up to maximum shown)

^R_S = Nonprintable hexadecimal code indicating next entry is a new compliance character indicating a new data identifier format follows

^R_S **EOT** = Nonprintable hexadecimal code indicating end of transmission

_ = Denotes a blank in sample data above

Sample data stream:

[)>^R_S06^G_S12SM1200120010001A ^G_SN7420014522690^G_S7Q1EA ^G_SVML1^G_S2RA^G_S 12Q1234567.90USD ^G_S5P999912 ^R_S 07^G_S031CF^G_SB6 7V^G_S27M12001^G_S38Oil Filter^G_S32999^G_SB703^G_SB8P^G_S 81M12003 ^R_S **EOT**

Sample PDF 417 symbol (contents do not match above data stream - for illustrative purpose only):

(Estimated Size)