DEFENSE LOGISTICS AGENCY
HEADQUARTERS
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IN REPLY
REFER TO   DLMSO

October 24, 2005

MEMORANDUM FOR DLMS PROCESS REVIEW COMMITTEE (PRC) MEMBERS

SUBJECT: Proposed Defense Logistics Management System (DLMS) Change (PDC) 193,
DLMS Unit of Issue and Purchase Unit Conversion Guidelines
(Supply/Finance/Contract Administration/SDR)

We are forwarding the attached proposed change to DOD 4000.25-M, Defense Logistics
Management System (DLMS), for evaluation and submission of a single coordinated
Component position. This change potentially impacts all functional areas using DLMS
transactions. The interface requirement relating to this proposed change is shown to assist in
your internal coordination. However, omission of such a requirement does not relieve you of
the responsibility to assure full coordination of the proposal within your Component.

Addressees may direct questions to the DLMSO points of contact, Ms. Ellen Hilert,
Chair, Supply Process Review Committee, 703-767-0676, DSN 427-0676, or e-mail:
ellen.hilert@dla.mil, or Mr. Joseph Pipan, 703-767-0680, DSN 427-0680 or e-mail:
joseph.pipan.ctr@dla.mil. Others must contact their Component designated representative.
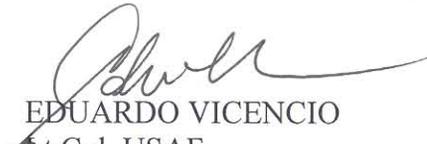
EDUARDO VICENCIO
Lt Col, USAF
Acting Director
Defense Logistics Management
Standards Office

Attachment
cc:
ADUSD(L)SCI

Proposed DLMS Change 193
DLMS Unit of Issue and Purchase Unit Conversion Guide

1. ORIGINATOR: Chair, Supply Process Review Committee (PRC), Defense Logistics Management Standards Office (DLMSO), Ms. Ellen Hilert, Ellen.Hilert@dla.mil; DSN 427-0676, CPS 703-767-0676

2. FUNCTIONAL AREAS: Supply/Logistics, Procurement, Contract Administration, Distribution, Supply Discrepancy Report, Transportation

3. References:

    a. ASC X12 Draft Version 4, Release 1 (004010)

    b. ASC X12 Draft Version 4, Release 3 (004030)

    c. ASC X12 Draft Version 5, Release 1 (005010)

    d. ASC X12 Draft version 5, Release 3 (005030)

    e. DOD 400.25-M Defense Logistics Management System (DLMS) Manual, Volume 1, Section 5.3 (Version/Release) and Appendix 10D (Unit of Issue and Purchase Unit Conversion Guide)

    f. DLMS Unit of Issue/Purchase Unit to ASC X12 Unit of Measure Conversion Guide (Logistics Qualifier Code List *8), www.dla.mil/J-6/dlmso/logdrms/logview/ LQVQCrpt.asp (Attachment 1)

4. REQUESTED CHANGE:

    a. Title: DLMS Unit of Issue and Purchase Unit (UI/PU) Conversion Guide

    b. Description of Change. This change abolishes current and all future version/release restrictions for ASC X12 unit of measure codes used by DLMS for conversion to DOD unit of issue and purchase unit. This will allow unrestricted use of approved ASC X12 unit of measure codes in higher, more recent version ASC X12 releases (e.g. 005010/005030) and authorizes their usage in lower versions (e.g., 004010/004030). There are currently 17 such codes which are authorized for use in higher versions only. If approved, these and any future higher version codes may be used in all versions.

    c. Background: Section 5.3, Volume 1 of the DLMS manual states that "DLMS participants exchanging data should send and receive in the same "standard" version to assure the accuracy of the information exchanges". Appendix 10D of the same manual

further states that the conversion guide must be employed to translate application program codes to valid ANSI ASC X12 codes for transmission. DLMSO has been advised that version release restrictions do not satisfy the requirements of several major interfacing systems and that the DLMS conversion guide for unit of issue/purchase unit to X12 code values is being used without any version release limitations.

       d. Procedures: Implementation of this proposed change will remove the version release limitations from the guide and enable open usage of all conversion entries irrespective of version release. All future additions to the guide will also be made without any restrictions. All future additions will be published by administrative change using the DLMS Approved Change format. Revised procedures are at Attachment 1. The current Unit of Issue and Purchase Unit Conversion Guide is at Attachment 2.

       e. Alternatives: Retain restrictions as documented.

5. Reason for Change:

       a. Configuration Management. Elimination of version release restrictions precludes/eliminates extensive programming requirements to implement version control capability.

       b. **Substitute Codes.** When forced to stay within the lower version, DLMSO selects a valid code from the X12 list to use as a substitute for the desired unit of measure code. The substitute code may be unrelated to the desired unit of measure. This practice of using one code to mean another may result in some confusion and would be unnecessary if the desired code is available at a higher version. There is also a small risk of needing the actual value of the chosen substitute code at a later date and it would already be in use for a different meaning.   This problem is not unique to unit of measure, but the conversion table involved to obtain the DoD unit of issue may make it more unsatisfactory.

       c. Standards Migration Impact. If this change is not approved, implementing systems in full compliance would be forced to migrate the entire transaction to the higher version to adopt one of the higher version unit of measure codes.   This would be expensive, time-consuming, difficult to coordinate, and largely inappropriate for such as small benefit.

6. Advantages and Disadvantages:

       a. Advantage: See paragraph 5 above. This change allows for speedy, low cost updates to implemented transaction exchanges.   It allows implementing systems to support new business applications with minimal effort.

       b. Disadvantage: Potential rejection of ANSI ASC X12 code values by Value Added Networks (VANs) or validation processes in Service/Agency automated systems.   It

requires manual intervention to permit use of higher version codes as "local codes" within the lower X12 version.

Volume 1

C5.3 DLMS VERSION CONTROL.

C.5.3.1 Rules for Application of DSs to Federal ICs. The official ANSI ASC X12 version of a standard transaction set (e.g., 511) is a key ingredient in the successful application of DSs to ICs. The applicable version number is transmitted as a code in the functional group header within an interchange envelope. The version is transmitted as a three position *numeric (e.g., 004).* Each major ANSI ASC X12 draft standards revision involves a public review process that leads to a publication of a set of American National Standards causes the version number to increase by one. The predominant DLMS version is 004. The next three positions designate the release level within each version, i.e., 010. The release number of each version is identified by the second position of the release level. The initial DLMS implementation release is release one (010). Both version and release numbers are commonly referred to as a version release; e.g., ANSI ASC X12 version release 004010 ("4010"). The DLMS may eventually support multiple versions dependent upon trading partner requirements to include a minimum of the current version plus two previous versions. In addition, the DLMS will support multiple versions of DSs within each ANSI ASC X12 release. This layered version control schema will allow for documentation and control od DLMS changes that do not affect the structure of ANSI ASC X12 transaction sets or DLMS supplements, but are required for clarification and/or update of DSs.

C5.3.2 Exception Processing for ASC X12 Unit of Issue/Purchase Unit Codes. Version release restrictions cited in C5.3.1 above do not satisfy the requirements of several major interfacing systems involved in DLMS transactional interchanges. Accordingly, the restrictions limiting data exchange to the version release originally cited in the Unit of Issue and Purchase Unit Conversion Guide (Appendix 4) have been removed and are not applicable to the conversion of DoD unit of issue and purchase unit representations to X12 code values. Open usage of all conversion entries is allowed irrespective of version release. Further, all future additions to the Unit of Issue and Purchase Unit Conversion Guide (Appendix 4) will be published by administrative change using the DLMS Approved Change format.

AP4. APPENDIX 4

DLSS/DLMS CONVERSION GUIDE

Three (3) sets of conversion guides contain a cross reference of DoD domain codes (data item codes) to ANSI ASC X12 domain code values. All three conversion guides must be implemented in DoD systems using ANSI ASC X12 transaction formats to convert DoD data value established in legacy system to the corresponding ANSI ASC Z12 code values. The applicable conversion guides are:

CODE   TITLE

*9   TRANSPORTATION MODE OF SHIPMENT/TRANSPORTATION
          METHOD/TYPE CODE CONVERSION
          http://www.dla.mil/J-
          6/dlmso/logdrms/logview/LQVQCrpt.asp?FindCode=*9&tockword=&Code37=00&ca
          mefrom=&inat

*A   TYPE OF PACK CONVERSION GUIDE
          http://www.dla.mil/J-
          6/dlmso/logdrms/logview/LQVQCrpt.asp?FindCode=*A&tockword=&Code37=0
          0&camefrom=&inat

*8   UNIT OF MATERIAL MEASURE (UNIT OF ISSUE/PURCHASE UNIT)
          CONVERSION GUIDE
          http://www.dla.mil/J-
          6/dlmso/logdrms/logview/LQVQCrpt.asp?FindCode=*8&tockword=&Code37=0
          0&camefrom=&inat

LOGISTICS QUALIFIER CODE LIST

QUALIFIER CODE: *8

NAME:	UNIT OF ISSUE AND PURCHASE UNIT CONVERSION GUIDE (UNIT OR BASIS FOR MEASUREMENT) (DOD CODE SEQUENCE)
ALIAS:	UNIT OF ISSUE AND PURCHASE UNIT CONVERSION GUIDE (UNIT OR BASIS FOR MEASUREMENT)
DEFINITION:	THE DLMS CONTINUES TO SUPPORT THE LEGACY CODE STRUCTURE "UNIT OF ISSUE" USED IN THE DEFENSE LOGISTICS STANDARD SYSTEMS (DLSS). SPECIAL PROCESSING IS REQUIRED AT THE POINT OF INPUT TO CONVERT THE ANSI ASC X12 "UNIT OR BASIS FOR MEASUREMENT " CODE VALUE TO THE DLSS LEGACY CODE VALUE AND AT THE POINT OF OUTPUT TO CONVERT THE DLSS LEGACY CODE VALUE TO THE ANSI ASC X12 CODE VALUE. BOTH THE SENDER AND RECIPIENT MUST USE THE CONVERSION GUIDE. THE ANSI ASC X12 CODE VALUES LISTED BELOW ARE ASSIGNED UNDER DATA ELEMENT 355, "UNIT OR BASIS FOR MEASUREMENT CODE".
REMARKS:	REFER TO DEFENSE LOGISTICS MANAGEMENT SYSTEM (DLMS) MANUAL, DOD 4000.25-M, VOLUME 1 (C8.1.5) AND VOLUME 2 (C4.2.2.4). (ALSO SEE CONVERSION GUIDES **8 FOR X12 SEQUENCE AND *8* FOR ALPHABETIC NAME SEQUENCE).
SOURCE:	DEFENSE LOGISTICS MANAGEMENT SYSTEM (DLMS)
AVAILABLE FROM:	
ABSTRACT:	

DATA CODE CHARACTERISTICS:	TYPE: ID	MIN: 002	MAX: 0002

NAME/DEFINITION	DOD CODE	X12 CODE

SPECIAL NOTE

ACRE	AC	AC
APOTHECARY DRAM	AD	DF
AMPOULE	AM	AM
APOTHECARY OUNCE	AO	9O *
APOTHECARY POUND	AP	9A *
APOTHECARY SCRUPLE	AS	ZY *
ASSORTMENT	AT	AS
TWENTY	AX	AX
ASSEMBLY	AY	AY
BRITISH THERMAL UNITS PER CUBIC FOOT	B0	B0
BARREL, LIQUID	B1	ZX *
BARREL, DRY	B2	ZW *
CYCLES	B7	B7
BALL	BA	AA
BUNDLE	BD	BD
BALE	BE	BA
BOARD FOOT	BF	BF
BAG	BG	BG
BOOK	BK	BK
BARREL	BL	BR
BOLT	BO	BM
BRIQUET	BQ	9B
BAR	BR	BI
BOTTLE	BT	BO
BUSHEL	BU	BU
BOX	BX	BX
SQUARE CENTIMETER	C2	SC
COST	C5	C5
CARTRIDGE	CA	CQ
CARBOY	CB	CB
CUBIC CENTIMETER	CC	CC
CUBIC YARD	CD	CY
CONE	CE	CJ
CUBIC FOOT	CF	CF
CENTIGRAM	CG	AF
CHAIN	CH	X1
CUBIC INCH	CI	CI
CAKE	CK	KA
COIL	CL	CX
CENTIMETER	CM	CM
CAN	CN	CN
CONTAINER	CO	CH
CASE	CS	CA

CARTON	CT	CT
CUP	CU	CU
HUNDRED WEIGHT	CW	HW
CYLINDER	CY	CL
CUBIC METER	CZ	CR
DAY	DA	DA
DECIBEL	DB	2N
DECAGRAM	DC	DJ
DECIMETER	DE	DM
DEGREES, FAHRENHEIT	DF	FA
DECIGRAM	DG	DG
DEGREES, KELVIN	DK	KV
DECILITER	DL	DL
DRAM	DM	DF
DRUM	DR	DR
PENNYWEIGHT	DW	WP
DOZEN	DZ	DZ
EACH	EA	EA
*EXPOSURE	EX	JX
FATHOM	FA	AK
FOLD	FD	9F *
FAMILY UNIT	FM	9Y
FRAME	FR	1Q
FOOT	FT	FT
FURLONG	FU	FU
FIVE	FV	P5
FIFTY	FY	Q4
GALLONS PER MINUTE	GB	G2
GREAT GROSS	GG	GG
GILL	GI	G5
GALLON	GL	GA
GRAM	GM	GR
GRAIN	GN	GX
GROUP	GP	10
GROSS	GR	GS
APOTHECARY GRAIN	GX	GX
HOSPITAL BEDS	HB	HX *
HUNDRED	HD	HU
HUNDRED FEET	HF	HF
HOGSHEAD	HH	Z4
HANK	HK	HA
HUNDRED FEET - LINEAR	HL	HL
HUNDRED POUNDS	HP	CW
HOUR	HR	HR

HUNDRED SQUARE FEET	HS	HS
HUNDRED YARDS	HY	HY
IMPERIAL GALLON	IG	GI
INCH	IN	IN
INTERNATIONAL UNIT	IU	F2
JOB	JB	JA
JAR	JR	JR
SQUARE KILOMETER	K2	8U
KILOCURIE	KC	2R
KILOGRAM	KG	KG
KILOMETER	KM	DK
KARAT (CARAT)	KR	CD
KIT	KT	KT
KILOVOLT	KV	K4 *
POUND	LB	LB
LINEAR FOOT	LF	LF
LENGTH	LG	LN
LITER	LI	LT
LOT	LT	LO
LINEAR YARD	LY	LY
SQUARE METER	M2	SM
SQUARE MILLIMETER	M4	MS
MICROGRAM	M5	MC
METRIC TON	M6	MP
BRITISH THERMAL UNITS PER HOUR	MB	2I *
THOUSAND CUBIC FEET	MC	TZ
MEAL	ME	Q3
THOUSAND FEET	MF	TL
MILLIGRAM	MG	ME
MILE	MI	DH
MILLILITER	ML	ML
MILLIMETER	MM	MM
MINIM	MN	F4
MONTH	MO	MO
METER	MR	MR
MINUTE	MT	MJ
THOUSAND	MX	TH
OUTLET	OL	OB *
OUTFIT	OT	11
OPERATING UNIT	OU	OU *
OUNCE	OZ	OZ
PAGE	PA	ZP
PAD	PD	PD
PACKAGE	PG	PK

PACK (PAK)	PH	PH
PILLOW	PI	9P **
PECK	PK	PY
PLATE	PM	PP
PERSONS, CAPACITY	PN	IE
PAIR	PR	PR
PINT	PT	PT
PELLET	PX	9L **
PACKET	PZ	12
QUARTER (ONE OF FOUR (4) DIVISIONS OF A HUMAN BODY)	QF	QF *
QUART	QT	QT
QUARTER DOZEN	QU	QD *
RATION	RA	13
ROD	RC	RD
ROUND	RD	RO
REEL	RL	RE
REAM	RM	RM
ROLL	RO	RL
THOUSAND ROUNDS	RX	RX
SECOND	SC	03
SKID	SD	SV
SET	SE	ST
SQUARE FOOT	SF	SF
SHEET	SH	SH
SQUARE INCH	SI	SI
SKEIN	SK	SW
SPOOL	SL	SO
SQUARE METER	SM	SM
SHOT	SO	14
STRIP	SP	SR
SQUARE	SQ	SQ
SEAT	ST	9S *
STICK	SX	15
SQUARE YARD	SY	SY
TEASPOON	T2	Y3
TABLESPOON	TB	Y2
TWENTY-FOUR	TD	Q7
TEN	TE	U3
TWENTY-FIVE	TF	Q5
GROSS TON	TG	TG
TON (2,000 POUNDS)	TN	TN
TROY OUNCE	TO	TO
TROY POUND	TP	TX

THIRTY-SIX	TS	Q6
TABLET	TT	U2
TUBE	TU	TB
UNITLESS	UL	UL
UNIT	UN	UN
UNITED STATES PHARMACOPOEIA (USP)UNIT	US	9Z *
VIAL	VI	VI
VOLT	VT	70
WEEK	WK	WK
WATT	WT	99
YARD	YD	YD
YEAR	YR	YR
COUNT	1N	1N