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December 26, 2018

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC) MEMBERS

SUBJECT: Approved Defense Logistics Management Standards (DLMS) Change (ADC) 1188, Alignment of DOD/ASC X12 Conversion Guides for Type of Pack, Transportation Method/Type Code, and Unit of Materiel Measure (Unit of Issue/Purchase Unit) (Supply/Contract Administration)

We are forwarding the attached approved change to DLM 4000.25, Defense Logistics Management Standards, for implementation. **Joint implementation is 30 days from the date of this memorandum; staggered implementation is not authorized.**

Addressees may direct questions to Ms. Sylvia Williams, DLMS Data Manager at email: EBSO.CDS@dla.mil. Others must contact their designated Supply PRC representative available at http://www.dla.mil/HQ/InformationOperations/DLMS/allpoc/.

HEIDI M. DAVEREDE
Director
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Attachment
As stated

cc:
ODASD(Logistics)
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PIEE PMO
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CMO

ADC 1188

Alignment of DOD/ASC X12 Conversion Guides for Type of Pack, Transportation Method/Type Code, and Unit of Materiel Measure (Unit of Issue/Purchase Unit)

1. ORIGINATING SERVICE/AGENCY AND POC INFORMATION: Enterprise Business Standards Office (EBSO), Ms. Sylvia Williams, 571-363-9282; or email EBSO.CDS@dla.mil.

2. FUNCTIONAL AREA:

    a. <u>Primary/Secondary Functional Area</u>: Supply

    b. <u>Primary/Secondary Functional Process</u>: Secondary Functional Area: Contract Administration; Functional Process: Information Exchange, DOD/ASC X12 Conversion Guides

    c. <u>Logistics and Transaction Changes (Check All That Apply)</u>:

☑	**Category**	☑	**Category**	☑	**Category**
X	Billing	X	Physical Inventory		Contract Admin
	Discrepancies / Deficiencies		MILSTRAP		DoDAAD
	Serialization		MILSTRIP		MAPAD
	Small Arms/Light Weapons		MRA		LMARS
	pRFID		Disposition		DLM Publications
X	GFP		DOD BRAC		

3. REFERENCES:

    a. Cataloging Data and Transaction Standards, Volume 10, Multiple Application References / Instructions / Tables and Grids

    b. DLM 4000.25, Defense Logistics Management Standards, Volume 1, Appendix 4

    c. DLM 4000.25, Defense Logistics Management Standards, Volume 1, Chapter 7

4. APPROVED CHANGE(S): Green highlighting identifies substantive updates subsequent to staffing. Aligning of FLIS code names to X12 code names in Cataloging Data and Transaction Standards, Volume 10, Table 53, Unit of Issue Codes, and Volume 10, Table 81, Unit of Measurement Designations, is deferred by request of the Cataloging functional process owner. Enclosure 5 was therefore removed in its entirety.

a. **Brief Overview of Change:** This change aligns DOD code names in the Type of Pack and Transportation Method/Type Code conversion guides with the USTRANSCOM Reference Data Management (TRDM) registry code names, and maps the TRDM to X12 code names. It also adds a new mapping for Tank Car to the Type of Pack conversion guide. This change updates the Unit of Materiel Measure (Unit of Issue/Purchase Unit) conversion guide to ensure DOD codes, other than those represented in the Federal Logistics Information System (FLIS) as documented in Cataloging Data and Transaction Standards, Volume 10, Tables 53 and 81 (Reference 3.a.), have the name assigned by X12. Additional updates correct some erroneous mappings for DOD Codes.

b. **Background:**

   (1) DLM 4000.25, Volume 1, Appendix 4 (Reference 3.b.) requires DOD systems to convert internal DOD data values to the corresponding X12 code values for transmission under the DLMS. This conversion allows DOD systems to use DOD codes internally, and only converts them to X12 codes during transmission. This allows the transaction to comply with syntax requirements. The equivalent X12 code may be equal to or similar to the DOD code value.

   (2) Currently, all three of the conversion guides are available in spreadsheets, posted on the EBSO website accessible via quick links. In the future, users may access the conversion guides via the Logistics Data Resources Management System (LOGDRMS), which is currently in a redesign effort. A future version of LOGDRMS will contain fully automated conversion guides that will provide more information about the mapping between the DOD codes and the prevalent 4010 and 4030 X12 standards used by DLMS.

   (3) EBSO reviewed the current source TRDM and FLIS code lists, and identified required entries and corrections to the conversion guides.

   (4) DLA requested a DOD Unit of Issue (UI) for Sleeve. The Medical Supply Chain has problems processing certain materiel coming from the Army Medical Material Agreement (AMMA) program that utilize the term Sleeve (e.g., a sleeve of 100 cups), requiring a large amount of manual revisions on DLA's part. The X12 code for Sleeve is SL under Data Element 355, Unit or Basis for Measurement Code. However, FLIS already uses the code SL as the Unit of Issue for Spool. Adding the DOD Code YS, which is not in use under X12 in Data Element 355, to the Conversion Guide mapped to the X12 Code SL for Sleeve will address this issue.

   (5) The Enterprise Business Standards Office is the new steward of Cataloging Data Standards (CDS) since April 1st, 2018. The new responsibilities include the maintenance of Cataloging code lists and transaction formats, which includes the Cataloging Data and Transaction Standards, Volume 8 thru 13, formerly known as FLIS Technical Procedures. The Unit of Issue and Unit of Measurement code lists residing in Volume 10 are therefore now under the purview of EBSO. The Cataloging Data Standards Team in cooperation with the Federal Cataloging Committee is working towards a complete transition to using X12 codes instead of DOD codes for Unit of Issue and Unit of Measurement.

c. **Approved Change in Detail:**

    (1) Type of Pack Conversion Guide (see Enclosure 1): Add DOD TRDM Code TC, Tank Car and the equivalent X12 Code TKR.

    (2) Transportation Method/Type Code Conversion Guide (see Enclosure 1):

        (a) Update conversion guide code names for Code 3, 9, Q, and V to align with TRDM.

        (b) Correct the mapping of TRDM code M (Surface Freight Forwarder) from X12 code I to SF.

    (3) Unit of Materiel Measure (Unit of Issue/Purchase Unit) Conversion Guide (see Enclosure 2):

        (a) Code names in the Unit of Materiel Measure (Unit of Issue/Purchase Unit) Conversion Guide will match the X12 name for the code, with an exception for FLIS code names per Cataloging Data and Transaction Standards, Volume 10, Tables 53 and 81.

        (b) Add guide notes to clarify which codes are FLIS Unit of Issue code, FLIS Unit of Measure codes, and if the X12 code is a migration code. (Refer to paragraph C7.4.1.3. of Reference 3.c. for an explanation of migration codes).

        (c) Add mapping for existing FLIS Unit of Measure code EX, Exposure, to the corresponding X12 code JX, Exposure (X12 version/release 004050 migration code).

        (d) Add mapping for DLA requested Unit of Issue code YS, Sleeve, with corresponding X12 code SL.

        (e) Correct mappings for DOD Codes CU, FC, RE, RD and SV.

    d. **Revisions to DLM 4000.25 Manuals:** Update DLM 4000.25, Volume 1, Appendix 4 (see Enclosure 3) and references to DOD/ASC X12 Conversion Guides in Volumes 1, 3, 4, and 7 (see Enclosure 4).

    e. **Alternatives:** This change updates the DOD/ASC X12 Conversions Guides. In the desired future state, all systems will use X12 codes internally and will not require code conversion. This requires FLIS to update all materiel and Cataloging processes to utilize X12 Unit of Issue, and Unit of Measurement codes. All relevant systems and interfaces would also have to review and update their tables and stop the conversion process.

5. REASON FOR CHANGE: Aligning DOD codes with the respective authoritative sources reduces the chances of being out of sync with DLMS trading partners.

6. ADVANTAGES AND DISADVANTAGES:

    a. Advantages: Greater consistency in approach to defining DOD/ASC X12 Conversion Guides.

    b. Disadvantages: None

7. ESTIMATED TIME LINE/IMPLEMENTATION TARGET: DAAS will implement the mapping changes 30 days after signature date of this ADC.

8. ESTIMATED SAVINGS/COST AVOIDANCE ASSOCIATED WITH IMPLEMENTATION OF THIS CHANGE: None.

9. IMPACT:

    a. New/Changed DLMS Data Elements: Update three DOD/ASC X12 Conversion Guides per Enclosures 1 and 2.

    b. Component Automated Information Systems (AIS): There is no impact to DLMS transactions, but DOD Components should update their logistics systems tables and DLMS mappings to align with these changes.

    c. Defense Automatic Addressing System (DAAS): Apply conversion guide updates.

    d. Non-DLM 4000.25 Series Publications: None.

10. PDC 1188 STAFFING RESPONSE/COMMENT RESOLUTION:

Originator	Response/Comment	Disposition
Army	No response.	No response received after more than three follow-ups with the Supply PRC Representative.
Air Force	Concur with comment. Air Force supplied a list of Codes used within ILS-S Retail System; Air Force at present uses Roll (RO) and Spool (SL) from Enclosure 2, Paragraph 2.	Noted.
DAAS	Concur with Comment. DAAS will implement the mapping changes 30 days after signature date of the ADC.	Noted.
DLA	Concur with comment. There are table updates that will be required, however no negative comments were received.	Noted.
DLA J3, Justin Voshel	Non-Concur to changes to Unit of Issue and Unit of Measure for FLIS. The change to some exceeds character limits; the change would have an effect on 20 different systems and cannot be accomplished at this time.	Noted. Proposed changes to FLIS removed from ADC.
GSA	Concur without comment	Noted.

Originator	Response/Comment	Disposition
Navy	Concur with comment. Navy requests clarification as to the code name/definition of DOD code U6 in the Unit Of Materiel Measure (Unit Of Issue/Purchase Unit) Conversion Guide, as there are differences between the name in Enclosure 2, Section 3 (page 4) and the one in Enclosure 2, Section 4 (page 8).	Adjusted both sections to U.S. for U6, highlighted in green.
USTRANSCOM	Concur without comment.	Noted.

Enclosure 1: Revisions to Conversion Guides for TRDM Managed Code Lists.

Changes are identified by ***bold red italics*** and double strikethrough text.

1. Type of Pack Conversion Guide. Update the TRDM source URL to
https://trdmws.maf.ustranscom.mil/trdm/index.html#/TRDM/home. Add new DOD Code TC, Tank Car, and the equivalent X12 Code TKR.

DOD Code	Name/Definition	X12 Code	Change Explanation
TC	*Tank Car*	*TKR*	Add code from TRDM missing from the conversion guide.

2. Transportation Method/Type Code Conversion Guide. Update the TRDM source URL to
https://trdmws.maf.ustranscom.mil/trdm/index.html#/TRDM/home, specify TRANSPORTATION-METHOD-DTR-X12-DE91 as the TRDM source code list and make the following changes to the cross-reference to match TRDM.

DOD Code	Name/Definition	X12 Code	Change Explanation
3	*Ocean (*ROLL-ON/ROLL-OFF*)* ~~(RORO) SERVICE~~	RO	Match TRDM Name
9	Local Delivery ~~By Government Or Commercial Truck~~	T (4010) LD (4030)	Match TRDM Name
M	Surface Freight Forwarder	~~I~~ *SF*	The X12 code listed in the conversion guide appears to be a mistake and does not match TRDM acknowledged mapping to X12 code "SF".
Q	Commercial Air Freight~~/Air Taxi~~	A	Match TRDM Name
V	*Commercial/Government-Owned/Leased Shipping Container* (SEAVAN)	O	Match TRDM Name

Enclosure 2, Unit of Materiel Measure (Unit of Issue/Purchase Unit) Conversion Guide updates.

Changes are identified by ***bold red italics*** and strike-through text.

1. Update the heading information of the conversion guide as follows:

NAME:	**Unit of Issue and Purchase Unit Conversion Guide (Unit or Basis for Measurement)** ~~**(DOD Code Sequence)**~~
DEFINITION:	(1) The DLMS continue~~s~~ 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 below are assigned under data element 355 "Unit or Basis for Measurement Code". (2) For procurement domain users, some units of measure have been declared as descriptive units of measure; they are not to be used in association with deliverable quantities in a procurement action. Use of descriptive units of measure must not conflict with the Unit of Issue/Unit of Measure tables in ***FLIS Technical Procedures, Volume 10*** ~~DOD 4100.39-M~~ and the ~~DLMS~~ ***DoD/ASC X12*** Conversion Guide values listed below. See the Defense Federal Acquisition Regulation Supplement (DFARS) for reference on allowable units of measure for deliverable line items (PGI 204.7103 Contract line items). ~~Procurement Data Standard (PDS) for details on authorized purchase units for deliverable quantities versus descriptive units of measure.~~
SOURCE:	Defense Logistics Management S***tandards***~~ystem~~ (DLMS) Defense Federal Acquisition Regulation Supplement (DFARS)
REMARKS:	Refer To ~~Defense Logistics Management System (DLMS) manual,~~ DLM 4000.25, 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).~~ **TYPE:** ID **MIN:** 002 **MAX:** 0002
	Refer to: Defense Federal Acquisition Regulation Supplement (DFARS) (PGI 204.7103) Contract Line Items (To be 204.1005 upon modification of new line item coverage in FAR 4.10).

2. Make the following adds, corrections and removals to mappings between DOD and X12 codes

DOD Code	Name/Definition	X12 Code	Notes:	Change Explanation
EX	*Exposure*	*JX*	*FLIS Unit of Measure. X12 Version Release 004050 migration code. Refer to ADC 1188.*	Adds FLIS UoM code for Exposure to conversion guide and maps to existing X12 UoM code.
CU	~~Cup~~ *Curie*	~~CU~~ *4D*	*FLIS Unit of Measure.*	DOD Code CU is erroneously mapped to X12 Code CU (Cup); The FLIS name for CU is Curie. Cup is currently not assigned by FLIS.
~~FC~~	~~1000 CUBIC FEET~~	~~FC~~		1) DOD Code FC is currently not assigned by FLIS. 1000 Cubic Feet is erroneously mapped to X12 code FC (Blister Pak). 2) There is an existing mapping for Thousand Cubic Feet; it is mapped to DOD Code MC and X12 Code TZ.
RD	~~ROD (LENGTH) - 5.5 YARDS~~ *Round*	~~RD~~ *RO*	*FLIS Unit of Measure.*	DOD Code RD is erroneously mapped to X12 Code RD (Rod, length - 5.5 Yards). The FLIS name for RD is Round. Rod is currently not assigned by FLIS.
~~RE~~	~~Round~~	~~RO~~		DOD Code RE is erroneously as the DOD code for Round. Per above, FLIS identifies code RD as the DOD code for round.
SV	Service	~~SL~~ *SU*	*FLIS Unit of Issue.*	DOD Code SV is erroneously mapped to X12 Code SL (Sleeve). A code maintenance will be submitted for establishment of 'SU-Service' in a future version of the X12 standard.
YS	*Sleeve*	*SL*	*FLIS Unit of Issue. Requires a quantitative expression.*	Adds DLA requested UI code for Sleeve to conversion guide and mapped to existing X12 code. Cannot set DOD to be the same as the X12 code, as FLIS has defined code SL for UI code for Spool.

3. The following code names are updated to match X12 code names

X12 Code	X12 Code Name	Unit Of Materiel Measure (Unit Of Issue/Purchase Unit) Conversion Guide	DOD Code
05	Lifts	Lift*s*	05
1R	Transactions	Transaction*s*	1R
43	Super Bulk Bag	Super Bulk Bag ~~(Same Size As Pallet)~~	43
48	Bulk Car Load	Bulk Car~~-~~*L*oad	48

X12 Code	X12 Code Name	Unit Of Materiel Measure (Unit Of Issue/Purchase Unit) Conversion Guide	DOD Code
4E	20-Pack	20-Pack	4E
4F	100-Pack	100-Pack	4F
5I	Standard Cubic Foot	Standard Cub~~ic~~e Foot	5I
91	Stokes	Stoke*s*	91
94	Curl Units	Curl Unit*s*	94
95	20,000 Gallon Tankcar	20,000 Gallon Tank ~~C~~*c*ar	95
96	10,000 Gallon Tankcar	10,000 Gallon Tank ~~C~~*c*ar	96
UX	Dram (Minim)	~~Apothecary~~ Dram *(Minim)*	AD
AJ	Cop	Cop ~~(Cylindrical Or Conical Mass)~~	AJ
AW	Powder-Filled Vials	Powder-Filled Vial*s*	AW
B2	Bunks	Bunk*s*	BY
C0	Calls	Call*s*	C0
X1	Chains (Land Survey)	Chain*s (Land Survey)*	CH
DA	Days	Day*s*	DA
2N	Decibels	Decibel*s*	DB
EV	Envelope	Envelope~~s~~	EV
FB	Fields	Field*s*	FB
FK	Fibers	Fiber*s*	FK
G2	U.S. Gallons Per Minute	*U.S.* Gallons Per Minute	GB
HR	Hours	Hour*s*	HR
GI	Imperial Gallons	Imperial Gallon*s*	IG
IM	Impressions	Impression*s*	IM
IS	Stops	Stop*s*	IS
KF	Kilopackets	Kilopacket*s*	KF
HK	Hundred Kilograms	Hundred~~s Of~~ Kilograms	KH
K8	Kilovolt	Kilovolt~~s~~	KV
LR	Layer(s)	Layer*(s)*	LR
M0	Magnetic Tapes	Magnetic Tape*s*	M0
2I	British Thermal Units (BTUs) Per Hour	British Thermal Units *(BTUs)* Per Hour	MB
MO	Months	Month*s*	MO
MJ	Minutes	Minute*s*	MT
N7	Parts	Part*s*	N7
P0	Pages - Electronic	Page*s* - Electronic	P0
P4	Four-pack	Four-Pack	P4
P5	Five-pack	Five-Pack	P5
P8	Eight-pack	Eight-Pack	P8
PY	Peck, Dry U.S.	Peck*,* Dry U.S.	PK
QE	Photographs	Photograph*s*	QE
RS	Resets	Reset*s*	RS

X12 Code	X12 Code Name	Unit Of Materiel Measure (Unit Of Issue/Purchase Unit) Conversion Guide	DOD Code
S6	Sessions	Session*s*	S6
S7	Storage Units	Storage Unit*s*	S7
03	Seconds	Second*s*	SC
SK	Split Tanktruck	Split Tank ~~T~~*t*ruck	SR
S8	Standard Advertising Units (SAUs)	Standard Advertising Unit*s (SAUs)*	SW
TC	Truckload	Truck ~~L~~*l*oad	TC
TJ	Thousand Sq. Centimeters	Thousand Sq*.* ~~uare~~ Centimeters	TJ
TP	Ten-pack	Ten*-*Pack	TV
U1	Treatments	Treatment*s*	U1
U6	U.S. Gallons at 60 Degrees Fahrenheit	*U.S.* ~~United States~~ Gallons *at* ~~@~~ 60 Degrees Fa*h*renheit	U6
WD	Work Days	Work Day*s*	WD
YR	Years	Year*s*	YR
AD	Bytes	Byte*s*	YT

4. Guide notes are added for the following code mappings as shown

DOD Codes	Name/Definition	X12 Codes	Guide Note
2D	Ship Set	2D	*X12 Version/Release 004030 Migration Code. Refer to ADC 1188.*
5D	Proof Gallons	5D	*X12 Version/Release 004030 Migration Code. Refer to ADC 1188.*
7A	Landings	7A	*X12 Version/Release 007020 Migration Code. Refer to ADC 1188.*
7C	Flight Hours	7C	*X12 Version/Release 007020 Migration Code. Refer to ADC 1188.*
9Y	Family Unit	9Y	*X12 Version/Release 005030 Migration Code. Refer to ADC 1188.*
AM	Ampoule	AM	*FLIS Unit of Issue. Requires a quantitative expression.*
AO	Apothecary Ounce	9O	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
AP	Apothecary Pound	9A	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
AR	Suppository	AR	*FLIS Unit of Measure.*
AS	Apothecary Scruple	ZY	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
AT	Assortment	AS	*FLIS Unit of Issue.*
AV	Capsule	AV	*FLIS Unit of Measure.*
AY	Assembly	AY	*FLIS Unit of Issue.*

DOD Codes	Name/Definition	X12 Codes	Guide Note
B1	Barrel, Liquid	ZX	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
B2	Barrel, Dry	ZW	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
B7	Cycle	B7	*FLIS Unit of Measure.*
BA	Ball	AA	*FLIS Unit of Issue. Requires a quantitative expression.*
BD	Bundle	BD	*FLIS Unit of Issue. Requires a quantitative expression.*
BE	Bale	BA	*FLIS Unit of Issue. Requires a quantitative expression.*
BF	Board Foot	BF	*FLIS Unit of Issue and Unit of Measure.*
BG	Bag	BG	*FLIS Unit of Issue. Requires a quantitative expression.*
BK	Book	BK	*FLIS Unit of Issue. Requires a quantitative expression.*
BL	Barrel	BR	*FLIS Unit of Issue. Requires a quantitative expression.*
BO	Bolt	BM	*FLIS Unit of Issue. Requires a quantitative expression.*
BQ	Briquet	9B	*FLIS Unit of Measure. X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
BR	Bar	BI	*FLIS Unit of Issue. Requires a quantitative expression.*
BT	Bottle	BO	*FLIS Unit of Issue. Requires a quantitative expression.*
BX	Box	BX	*FLIS Unit of Issue. Requires a quantitative expression.*
CA	Cartridge	CQ	*FLIS Unit of Issue. Requires a quantitative expression.*
CB	Carboy	CB	*FLIS Unit of Issue. Requires a quantitative expression.*
CC	Cubic Centimeter	CC	*FLIS Unit of Measure.*
CD	Cubic Yard	CY	*FLIS Unit of Issue and Unit of Measure.*
CE	Cone	CJ	*FLIS Unit of Issue. Requires a quantitative expression.*
CF	Cubic Foot	CF	*FLIS Unit of Issue and Unit of Measure.*
CG	Centigram	AF	*FLIS Unit of Measure.*
CI	Cubic Inch	CI	*FLIS Unit of Measure.*
CK	Cake	KA	*FLIS Unit of Issue. Requires a quantitative expression.*
CL	Coil	CX	*FLIS Unit of Issue. Requires a quantitative expression.*
CM	Centimeter	CM	*FLIS Unit of Issue and Unit of Measure.*
CN	Can	CN	*FLIS Unit of Issue. Requires a quantitative expression.*
CO	Container	CH	*FLIS Unit of Issue. Requires a quantitative expression.*
CS	Case	CA	*FLIS Unit of Issue.*
CY	Cylinder	CL	*FLIS Unit of Issue. Requires a quantitative expression.*
CZ	Cubic Meter	CR	*FLIS Unit of Issue and Unit of Measure.*
DC	Decagram	DJ	*FLIS Unit of Measure.*
DE	Decimeter	DM	*FLIS Unit of Measure.*
DG	Decigram	DG	*FLIS Unit of Measure.*
DL	Deciliter	DL	*FLIS Unit of Measure.*
DM	Dram	DF	*FLIS Unit of Measure.*
DR	Drum	DR	*FLIS Unit of Issue. Requires a quantitative expression.*
DW	Pennyweight	WP	*FLIS Unit of Measure.*

DOD Codes	Name/Definition	X12 Codes	Guide Note
DZ	Dozen	DZ	*FLIS Unit of Issue and Unit of Measure.*
EA	Each	EA	*FLIS Unit of Issue and Unit of Measure.*
FD	Fold	9F	*FLIS Unit of Measure. X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
FG	Transdermal Patch	FG	*FLIS Unit of Measure.*
FO	Fluid Ounce	FO	*FLIS Unit of Measure.*
FR	Frame	1Q	*FLIS Unit of Measure.*
FT	Foot	FT	*FLIS Unit of Issue and Unit of Measure.*
FU	Furlong	FU	*X12 Version Release 005030 Migration Code. Refer to ADC 1188.*
FV	Five	Q9	*FLIS Unit of Issue. X12 Version Release 005030 Migration Code. Refer to ADC 1008.*
FY	Fifty	Q4	*FLIS Unit of Issue.*
GG	Great Gross	GG	*FLIS Unit of Measure.*
GI	Gill	G5	*FLIS Unit of Measure.*
GL	Gallon	GA	*FLIS Unit of Issue and Unit of Measure.*
GM	Gram	GR	*FLIS Unit of Measure.*
GN	Grain	GX	*FLIS Unit of Measure.*
GP	Group	10	*FLIS Unit of Issue.*
GR	Gross	GS	*FLIS Unit of Issue and Unit of Measure.*
GT	Thousand Gallons Per Day	NZ	*X12 Version Release 005030 Migration Code. Refer to ADC 1008.*
GX	Apothecary Grain	OG	*X12 Version Release 005030 Migration Code. Refer to ADC 1008.*
HB	Hospital Beds	HX	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
HD	Hundred	HU	*FLIS Unit of Issue and Unit of Measure.*
HF	Hundred Feet	HF	*FLIS Unit of Measure.*
HK	Hank	HA	*FLIS Unit of Issue. Requires a quantitative expression.*
HP	Hundred Pounds	CW	*FLIS Unit of Measure.*
HS	Hundred Square Feet	HS	*FLIS Unit of Measure.*
HW	Hundred Weight – Short (Hundred Weight)	HV	*FLIS Unit of Measure.*
HY	Hundred Yards	HY	*FLIS Unit of Measure.*
I1	Persons, Capacity	I1	*X12 Version Release 005030 Migration Code. Refer to ADC 1188.*
IN	Inch	IN	*FLIS Unit of Issue and Unit of Measure.*
IS	Stops	IS	*X12 Version Release 004030 Migration Code. Refer to ADC 1188.*
JR	Jar	JR	*FLIS Unit of Issue. Requires a quantitative expression.*
K7	Kilowatt	K7	*FLIS Unit of Issue.*

DOD Codes	Name/Definition	X12 Codes	Guide Note
KG	Kilogram	KG	*FLIS Unit of Issue and Unit of Measure.*
KM	Kilometer	DK	*FLIS Unit of Measure.*
KR	Carat (Carat)	CD	*FLIS Unit of Measure.*
KT	Kit	KT	*FLIS Unit of Issue and Unit of Measure.*
KV	Kilovolt	K8	*X12 Version Release 006050 Migration Code. Refer to ADC 1008.*
KZ	Kilowatt-Hour	KH	*FLIS Unit of Issue.*
L5	Liters At 15 Degrees Celsius	L5	*X12 Version Release 007020 Migration Code. Refer to ADC 1108.*
LB	Pound (Avoirdupois)	LB	*FLIS Unit of Issue and Unit of Measure.*
LF	Linear Foot	LF	*FLIS Unit of Measure.*
LG	Length	LN	*FLIS Unit of Issue. Requires a quantitative expression.*
LI	Liter	LT	*FLIS Unit of Issue and Unit of Measure.*
LT	Lot	LO	*FLIS Unit of Issue.*
MC	Thousand Cubic Feet	TZ	*FLIS Unit of Issue and Unit of Measure.*
ME	Meal	Q3	*FLIS Unit of Issue.*
MF	Thousand Feet	TL	*FLIS Unit of Measure.*
MG	Milligram	ME	*FLIS Unit of Measure.*
MI	Mile	DH	*FLIS Unit of Measure.*
ML	Milliliter	ML	*FLIS Unit of Measure.*
MM	Millimeter	MM	*FLIS Unit of Issue and Unit of Measure.*
MR	Meter	MR	*FLIS Unit of Issue and Unit of Measure.*
MX	Thousand	TH	*FLIS Unit of Issue and Unit of Measure.*
NK	Nights	NK	*X12 Version Release 004030 Migration Code. Refer to ADC 1188.*
OL	Outlet	OB	*X12 Version Release 005030 Migration Code. Refer to ADC 1008.*
OT	Outfit	11	*FLIS Unit of Issue.*
OU	Operating Unit	OU	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
OZ	Ounce - Av	OZ	*FLIS Unit of Issue and Unit of Measure.*
PD	Pad	PD	*FLIS Unit of Issue. Requires a quantitative expression.*
PG	Package	PK	*FLIS Unit of Issue. Requires a quantitative expression.*
PI	Pillow	9P	*FLIS Unit of Measure. X12 Version Release 005030 Migration Code. Refer to ADC 1008.*
PM	Plate	PP	*FLIS Unit of Issue.*
PR	Pair	PR	*FLIS Unit of Issue and Unit of Measure.*
PT	Pint	PT	*FLIS Unit of Issue and Unit of Measure.*
PX	Pellet	I2	*FLIS Unit of Measure. X12 Version Release 005030 Migration Code. Refer to ADC 1008.*
PZ	Packet	12	*FLIS Unit of Issue. Requires a quantitative expression.*
QF	Quarter	QF	*X12 Version Release 005030 Migration Code. Refer to ADC 1188.*

DOD Codes	Name/Definition	X12 Codes	Guide Note
QT	Quart	QT	*FLIS Unit of Issue and Unit of Measure.*
RA	Ration	13	*FLIS Unit of Issue and Unit of Measure.*
RL	Reel	RE	*FLIS Unit of Issue. Requires a quantitative expression.*
RM	Ream	RM	*FLIS Unit of Issue and Unit of Measure.*
RO	Roll	RL	*FLIS Unit of Issue. Requires a quantitative expression.*
RX	Thousand Rounds	RX	*FLIS Unit of Measure. X12 Version Release 005030 Migration Code. Refer to ADC 1188.*
SD	Skid	SV	*FLIS Unit of Issue. Requires a quantitative expression.*
SE	Set	ST	*FLIS Unit of Issue and Unit of Measure.*
SF	Square Foot	SF	*FLIS Unit of Issue and Unit of Measure.*
SH	Sheet	SH	*FLIS Unit of Issue and Unit of Measure.*
SI	Square Inch	SI	*FLIS Unit of Measure.*
SK	Skein	SW	*FLIS Unit of Issue and Unit of Measure.*
SL	Spool	SO	*FLIS Unit of Issue. Requires a quantitative expression.*
SM	Square Meter	SM	*FLIS Unit of Measure.*
SN	Section	SE	*X12 Extended Definition: 640 ACRES OR ONE SQUARE MILE*
SO	Shot	14	*FLIS Unit of Issue and Unit of Measure.*
SP	Strip	SR	*FLIS Unit of Issue. Requires a quantitative expression.*
SQ	Square	SQ	*FLIS Unit of Measure.*
ST	Seat	9S	*X12 Version Release 005020 Migration Code. Refer to ADC 1008.*
SX	Stick	15	*FLIS Unit of Issue. Requires a quantitative expression.*
SY	Square Yard	SY	*FLIS Unit of Issue and Unit of Measure.*
SZ	Syringe	SZ	*FLIS Unit of Measure.*
T9	Thousand Kilowatt Hours/Megawatt-Hour	T9	*FLIS Unit of Issue. ADC 476 recognizes FLIS character limit on the name, thus FLIS Name: Megawatt-hr (TH-KWH).*
TD	Twenty-Four	Q7	*FLIS Unit of Issue.*
TE	Ten	U3	*FLIS Unit of Issue.*
TF	Twenty-Five	Q5	*FLIS Unit of Issue.*
TN	TON (2,000 Pounds)	TN	*FLIS Unit of Issue and Unit of Measure.*
TO	Troy Ounce	TO	*FLIS Unit of Issue and Unit of Measure.*
TS	Thirty-Six	Q6	*FLIS Unit of Issue.*
TT	Tablet	U2	*FLIS Unit of Measure.*
TU	Tube	TB	*FLIS Unit of Issue. Requires a quantitative expression.*
U6	*U.S.* ~~United States~~ Gallons *at* ~~@~~ 60 Degrees Fahrenheit	U6	*X12 Version Release 007010 Migration Code. Refer to ADC 1008.*
US	U.S.P. Unit	9Z	*FLIS Unit of Measure. X12 Version Release 005020 Migration code. REFER TO ADC 1008.*
VI	Vial	VI	*FLIS Unit of Issue. Requires a quantitative expression.*
YD	Yard	YD	*FLIS Unit of Issue and Unit of Measure.*

DOD Codes	Name/Definition	X12 Codes	Guide Note
ZF	Million BTUs/Dekatherm	BZ	*FLIS Unit of Issue. ADC 476 recognizes FLIS character limit on the name, thus FLIS Name: Dekatherm (DTH MBTU).*

Enclosure 3, DLSS/DLMS Conversion Guides

Changes are identified by ***bold red italics*** and strike-through text.

AP4. APPENDIX 4

~~DLSS/DLMS~~ *DoD/ASC X12* CONVERSION GUIDE

AP4.1. Three sets of conversion guides contain ~~a~~ cross ~~reference~~ *references between* ~~of~~ DoD domain codes (data item codes) *and* ~~to American National Standards Institute (ANSI)~~ Accredited Standards Committee (ASC) X12 domain code values. ***DoD systems that store internal data in DoD format and exchange data in X12-based DLMS format must implement all*** ~~All~~ three conversion guides ~~must be implemented in DoD systems using ANSI ASC X12 transaction formats~~ to convert *outbound* DoD data value*s* ~~established in legacy system~~ to the corresponding ~~ANSI~~ ASC X12 code values *and vice versa for inbound data values*. The applicable conversion guides are available *under the quick links on the* ~~using the links provided below or from the~~ Defense Logistics Management Standards ~~Office~~ Website**.**

CODE   TITLE

*9   TRANSPORTATION MODE OF SHIPMENT/TRANSPORTATION
              METHOD/TYPE CODE CONVERSION

~~www.dla.mil/j-6/dlmso/eApplications/LOG.NET/UIL/Log_Qualifiers/lqvqeDetails.aspx?code=*9~~

*A   TYPE OF PACK CONVERSION GUIDE

~~www.dla.mil/j-6/dlmso/eApplications/LOG.NET/UIL/Log_Qualifiers/lqvqeDetails.aspx?code=*A~~

UNIT OF MATERIEL MEASURE (UNIT OF ISSUE/PURCHASE UNIT) CONVERSION GUIDE (available in three sorts).

*8   DoD Code Sequence:

~~www.dla.mil/j-6/dlmso/eApplications/LOG.NET/UIL/Log_Qualifiers/lqvqeDetails.aspx?code=*8~~

**8   ~~ANSI~~ ASC X12 Code Sequence:

~~www.dla.mil/j-6/dlmso/eApplications/LOG.NET/UIL/Log_Qualifiers/lqvqeDetails.aspx?code=**8~~

8   Alphabetic Name Sequence:

~~www.dla.mil/j-6/dlmso/eApplications/LOG.NET/UIL/Log_Qualifiers/lqvqeDetails.aspx?code=*8*~~

Enclosure 4, Adjust Name of DOD/ASC X12 Conversion Guides References

Changes are identified by ***bold red italics*** and strike-through text.

DLM 4000.25, Volume 1, Chapter 2

    C1.6.1.3. <u>DLMS Reference Material in Volume 1</u>. Volume 1 contains appendices with reference items applicable to the entire manual. Reference items are:

Appendix 1	References
Appendix 2	Terms and Definitions
Appendix 3	Acronyms and Abbreviations
Appendix 4	~~DLSS/DLMS~~ ***DoD/ASC X12*** Conversion Guides
Appendix 5	DLMS to DLSS
Appendix 6	DLMS Code List Qualifiers
Appendix 7	DLMS Transaction Formats
Appendix 8	Transaction Set 997 Implementation Convention, Functional Acknowledgement
Appendix 9	DLMS Change Process Flow Chart
Appendix 10	DLMS Compliance

DLM 4000.25, Volume 1, Chapter 2

(Preceding text not shown)

    C2.5.2. ~~DLMS ANSI~~ ***DoD /***ASC X12 Conversion Guides. ***DoD systems that store internal data in DoD format and exchange data in X12-based DLMS format must incorporate three*** ~~Three~~ conversion guides ~~must be incorporated in DoD systems using ANSI ASC X12 transaction formats~~ to convert DoD data values established in legacy systems to the corresponding ~~ANSI~~ ASC X12 code values. DoD applications must convert outbound transactions from DoD code values to ~~ANSI~~***ASC X12*** code values based on the ~~DLMS~~ ***DoD/ASC X12*** Conversion Guide definitions. DoD applications must convert inbound transactions from ~~ANSI~~***ASC X12*** code values to DoD code values based on ~~DLMS~~ ***DoD/ASC X12*** Conversion Guide definitions (Appendix 4). ~~DLSS~~

DLM 4000.25, Volume 1, Chapter 7

(Preceding text not shown)

    C7.4.1. <u>Code Sources</u>

    C7.4.1.1. <u>Deriving Code Values</u>. Code values associated with data elements may be derived from several locations. Many of the applicable code values for DLMS data elements are listed in the DLMS ICs. DLMS will continue to support other legacy code structures used in the Defense Logistics Standard System (DLSS). Three data elements, transportation mode/method code (transportation method/type code), unit of issue (unit or basis for measurement code), and

type pack code (packaging code) use conversion guides to convert the DoD legacy fixed-position code structure to the ASC X12 code structure. Special processing at the sending node provides conversion from a DoD code value to an ASC X12 code value for transmission of the transaction set. The sender and the receiver employ the conversion guide so that the end users see only the familiar DoD code values. ~~DLMS~~ ~~Cross Reference~~ *DoD/ASC X12* Conversion Guides are available from the Defense Logistics Management Standards ~~Program Office~~ Website.

DLM 4000.25, Volume 3, Chapter 1

(Preceding text not shown)

C1.1.2. <u>Defense Logistics Management System (DLMS) Volume Access</u>. Use of this volume requires simultaneous access to the DLMS Manual Volume 1 administrative items such as the lists of, acronyms and abbreviations, terms and definitions, and references; instructions for acquiring access to the DLMS standards data base; DLMS-to-Defense Logistics Standard System (DLSS) cross-references and *DoD/ASC X12 C*~~c~~onversion *G*~~g~~uides; specific guidance that applies to all implementation conventions; and functional and technical information that is relatively stable and applies to the DLMS as a whole.

DLM 4000.25, Volume 4, Chapter 1

(Preceding text not shown)

C1.2.1. <u>Use of This Volume</u>. Use of this volume requires simultaneous access to DLMS Manual Volume 1 administrative items such as lists of acronyms and abbreviations, terms and definitions, and references; instructions for acquiring access to the DLMS standards data base; DLMS-to-Defense Logistics Standard System (DLSS) cross-references and *DoD/ASC X12 C*~~c~~onversion *G*~~g~~uides; specific guidance that applies to all implementation conventions; and functional and technical information that is relatively stable and applies to the DLMS as a whole.

DLM 4000.25, Volume 7, Chapter 1

(Preceding text not shown)

C1.1.2. <u>Defense Logistics Management Standard (DLMS) Volume Access</u>. Use of this volume requires simultaneous access to the DLMS Manual Volume 1 administrative items such as the list of acronyms and abbreviations, terms and definitions, and references; instructions for acquiring access to the DLMS standards data base; DLMS to Defense Logistics Standard System (DLSS) *cross-references and DoD/ASC X12 C*~~c~~onversion *G*~~g~~uides; specific guidance that applies to all implementation conventions; and both functional and technical information that is relatively stable and applies to the DLMS as a whole.