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IN REPLY
REFER TO

J627

December 27, 2010

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE MEMBERS

SUBJECT: Approved Defense Logistics Management System (DLMS) Change (ADC) 407, Requirements for Unique Item Tracking (UIT) in the DLMS Supply Status (870S) Supporting the Cargo Movement Operations System (CMOS) Interface (MILSTRIP/Supply/Transportation Interchange) (Staffed as PDC 415)

The attached change to DoD 4000.25-M, Defense Logistics Management System (DLMS) and DoD 4000.25-2-M, Military Standard Transaction Reporting (MILSTRIP) is approved for implementation.

Addressees may direct questions to Ms. Ellen Hilert, email: Ellen.Hilert@dla.mil. Others must contact their Component designated Supply Process Review Committee representative.

A handwritten signature in blue ink, appearing to read "Donald C. Pipp".

DONALD C. PIPP
Director
DLA Logistics Management
Standards Office

Attachment

cc:
ODASD(SCI)

ADC 407

Requirements for UIT in the DLMS Supply Status (870S) Supporting the CMOS Interface

1. **ORIGINATOR:** Department of the Air Force, 754th ELSG/ILSS, DSN 596-2012; Commercial (334) 416-2012
2. **FUNCTIONAL AREA:**
 - a. **Primary:** Supply
 - b. **Secondary:** Supply Chain Visibility and Accountability
3. **REFERENCES:**
 - a. DLMSO memorandum subject: Approved Defense Logistics Management System (DLMS) Change (ADC) 316, Retail Transportation and Supply Receipt and Acknowledgement Transactions (Transportation/Supply), dated February 19, 2009.
 - b. DoD 4000.25-M, Defense Logistics Management System (DLMS), Volume 3, Chapters 1 and 2.
 - c. DoD 4000.25-1-M, Military Standard Requisitioning and Issue Procedures (MILSTRIP), Chapters 2, 3, 4, and Appendixes 2.1, 2.12, 2.16, and 3.10
 - d. AFMAN 23-110 Air Force Supply Manual

4. BACKGROUND:

a. Intent of the Transactions:

(1) The purpose of this requested action is to enhance the Integrated Logistics Solution-Supply (ILS-S) DLMS Supply Status transaction to include unique item identifiers (UIIs)/serial number for serialized item tracking. **Staffing Note for All Components:** *In cases where Standard Base Supply System (SBSS) shipments are destined for other Military Service customers, the shipping activity currently produces legacy 80-rp supply status transactions (AE1/AE2) under Air Force unique business rules which are transmitted to the receiving activity regardless of Military Service, in addition to the supply status provided under MILSTRIP business rules by the ICP that directed the shipment. As a result of this change, inter-Component use of this Air Force unique supply status will be blocked where possible by the Defense Automatic Address System (DAAS). It will not be feasible to block current 80-rp supply status from being forwarded outside the Air Force.*

(2) The Standard Base Supply System (SBSS) - Cargo Movement Operations System (CMOS) interface in association with implementation of the ADC 316 (reference 3.a) allowed the SBSS to perpetuate serialized control numbers/unique item identifiers (UII) in the DLMS 940R Material Release transaction. The supply-transportation interchange provided for the inclusion of serial number and UII for applicable items in support of an approved UIT program for Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM) (UID Designator Code AAJ). The inclusion of this additional data on the 940R was an interim solution to be replaced by adding UII/serial numbers to the DLMS supply status under this PDC.

(3) Under MILSTRAP procedures, UIT by serial number is only authorized for approved UIT Programs, and even these programs are required to transition to use of DoD Item Unique Identification (IUID) procedures. Accordingly, the Air Force has agreed to modify the planned implementation to use the DoD-required Unique Item Identifier (UII) when available. The serial number will be passed in addition to the UII. When legacy items are unmarked under DoD IUID procedures, the transaction will carry only the applicable serial number. Transactions may contain both a serial number and a UII. There are two separate and distinct fields that use different data qualifiers (SE-Serial Number and U3 for UII). Serial number may be used alone for legacy items when UII is not assigned, otherwise use two occurrences of the reference segment to identify both the serial number and the UII.

b. Scenario for which the transaction is used:

(1) ILS-S currently creates Supply Status (AE1, AE2) transactions each time a Cargo Movement transaction occurs in the SBSS/ES-S. **Staffing Note for All Components:** *This is a deviation from current procedures whereby status is provided by the ICP that directed the shipment. The impact of Air Force use of this unique business process on other Components is not known.*

(2) ILS-S converts/transforms these MILS transactions into DLMS 870S Supply Status transactions. When items have UII/Serial Number data, ILS-S will add this data to the DLMS 870S transaction for submission to DAAS where Positive Inventory Control (PIC) will receive the required asset data for NWRM items.

(3) ILS-S currently uses the DLMS 940R as described in the ADC 316 series to communicate cargo movements to CMOS via DAAS. The PIC is able to subscribe to DAAS for these transactions and receive near-real time updates of cargo movements. The DLA Logistics Management Standards Office and ILS-S have agreed that the use of the serial number in the 940R was an interim solution. The long-range solution is to include the serial number in ILS-S status transactions and, once that is implemented, to remove the serial numbers from the CMOS 940R transactions. In all discussions with PIC, it was critical that all NWRM (serial number) transactions associated with property movements included the serial numbers. The status transactions include the 856S and 870S transactions.

(4) In cases where SBSS outbound shipments are destined for other Service customers, the ILS-S-produced DLMS status transactions will contain serial number/UII data. Therefore, if the other Service destination bases currently consume DLMS status transactions, they may also plan to accept the serial number/UII data.

c. Current Document Identifier Codes and DLMS IC's in use today
AE1, AE2 – 870S.

5. PROPOSED CHANGE(S):

a. Description of Change:

(1) This change will allow for the inclusion of UII and/or Serial Number data in DLMS 870S transactions in support of the supply transportation interchange. The supply status applicable to this change is generated by ILS-S (Air Force retail supply system).

(2) The ADC authorizes the generation of an information copy of the 870S to satisfy a specific Air Force PIC NWRM need.

(3) A new qualifier is established to identify the retail supply activity generating the supply status. In association with this new qualifier, updated DLMS-to-80-rp MILS conversion rules are also provided.

b. Procedures: Staffing Note: Inclusion of the UII/serial number on the DLMS Supply Status is restricted to this Air Force requirement as specifically described below.

(1) ILS-S will create the 870S identifying applicable UIIs and serial numbers as authorized under the PIC NWRM UIT program.

(2) DAAS will provide an information copy (image) of the 870S transaction to the Air Force PIC Fusion. The information copy will be identified in the N1 segment of table 2, by a specific qualifier in the N101, a RIC in the N104 for the Air Force PIC NWRM Fusion Center, combined with a value in the N106 segment, to ensure an information copy of the 870S transaction is sent to Air Force PIC.

(3) Supply status provided via the ILS-S-produced 870S transactions may overwrite the status provided by the ICP. Existing MILSTRIP-authorized supply status codes will be used.

(4) Update the DLMS Supplement as shown:

#	Location	Revision to 870S Supply Status	Reason for Change /SBSS Notes
1	DLMS Introductory Note	<u>Add ADC 407 to DLMS Introductory note:</u> <i>- ADC 407, Requirements for Unique Item Tracking (UIT) for positive Inventory Control (PIC) Nuclear Weapons related Material (NWRM) in the DLMS Supply Status (870S) Supporting the Cargo Movement Operations System (CMOS) Interface</i>	To identify changes in the DS.
2	1/N101/50	<u>Revise existing DLMS notes and add new DLMS Qualifier 1Q and DLMS note :</u> GP Gateway Provider DLMS Note: <i>Use to indicate the organization DLA Transaction Services is providing rerouting of status.</i>	Administrative clarification (the detail table use of GP was defined for DAAS use, but this header table was not clearly

		<p><u>Add:</u></p> <p>1Q Military Facility</p> <p>DLMS Note: <i>For intra-AF supply status for lateral movements, to identify the activity shipping the materiel and providing supply status.</i></p>	<p>identified).</p> <p>Establishes a new qualifier to identify the activity preparing the status so that base-level supply status can be uniquely recognized.</p>
3	2/N101/90	<p><u>Revise DLMS notes :</u></p> <p>GP Gateway Provider DLMS Note: <i>Use to identify DAASC DLA Transaction Services as the “TO” organization for Component-generated supply status forwarded for DAAS distribution to status recipients under MILSTRIP/DLMS distribution rules (DLMS equivalent of AE8).</i></p> <p>Z8 Last Known Source of Supply DLMS Note: <i>1. Use for requisition supply status transactions to identify the supply source to which any future inquires should be addressed.</i> <i>2. For intra-AF supply status for lateral movements, may be used to identify the shipping activity to which any future inquires should be addressed. Refer to ADC 407.</i></p>	<p>Updates organization name.</p> <p>Clarifies usage under current Air Force procedures.</p>
4	Open the LX loop at 340	<p><u>Add segment level Federal and DLMS Notes:</u></p> <p>Federal Note: <i>1. Use the 2/LX /340 loop to provide Item Unique Identification (IUID) information for the purpose of Unique Item Tracking (UIT).</i> <i>2. Use the LX segment as a counter to identify the number of 2/LX/340 loop iterations in the transaction set.</i></p> <p>DLMS Note: <i>1. Use the 2/LX/340 loop only when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange Standard Base Supply System (SBSS) interface with CMOS to provide the unique item identifier (UII) and/ or serial number under the Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM) UIT program. Refer to ADC 407.</i> <i>2. The 2/LX/340 loop is repeated for each item to be uniquely identified and provides flexibility to accommodate tracking by UII or serial number.</i> <i>3. The entire 2/LX//340 loop is a DLMS enhancement.</i></p>	<p>Makes available appropriate segments and data elements for inclusion of item identification information.</p> <p>Provides general instructions for use.</p>

5	Open 2/LX01/340	<u>Add Federal Note:</u> Federal Note: <i>In the first 2/LX/340 loop iteration, cite numeric 1. In each subsequent loop iteration, increase incrementally by 1.</i>	Provides instructions for use.
6	Open 2/REF/350	<u>Add segment level Federal and DLMS Notes:</u> Federal Note: <i>Use this segment to provide Item Unique Identification (IUID) information.</i> DLMS Note: <i>1. Use only when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS to provide the UII and/or serial number under the PIC NWRM UIT program</i> <i>2. This transaction will support item identification based upon the UII or the serial number.</i> <i>3. Use multiple iterations of 2/REF/350 segment within the 2/LX/340 loop, to provide identifying information for an item as needed.</i>	Provides instructions for use.
7	2/REF01/350	<u>Add qualifiers with associated DLMS notes:</u> SE Serial Number DLMS Note: <i>1. Use to identify the serial number. The serial number may not exceed 30 characters in accordance with IUID policy.</i> <i>2. Serial number may be used alone for legacy items when UII is not assigned, otherwise use two occurrences of this segment to identify both the serial number and the UII. A maximum of 60 items may be identified for the CMOS interface. Refer to ADC 407.</i> U3 Unique Supplier Identification Number (USIN) DLMS Note: <i>1. Use to identify the UII. The UII may not exceed 50 characters in accordance with IUID policy. A data maintenance action was approved in version 5020. The approved code/name is "UII - Department of Defense Unique Item Identifier."</i> <i>2. A maximum of 60 items may be identified for the CMOS interface. Refer to ADC 407.</i>	To perpetuate UII and/or serial numbers on status notifications. This allows for increased asset visibility.
8	Open 2/REF02/350	<u>Add DLMS Note:</u> DLMS Note: <i>Use to indicate serial number when REF01=SE.</i>	Clarification.
9	Open 2/REF03/350	<u>Add DLMS Note:</u> DLMS Note: <i>Use to indicate UII value when REF01=U3.</i>	Clarification.
10	2/N101/90	<u>Add new DLMS Qualifier and DLMS note:</u> KK Registering Party DLMS Notes: <i>1. Use to identify the Component UIT registry. May be used by a Component when their UIT process requires that a copy of the</i>	To clearly identify that the 870S transaction is an information copy for AF PIC Fusion.

		<p><i>transaction should also be sent to a UIT registry for information purposes. Must be used with 2/N106/90 code 'PK-Party to Receive Copy' to identify that this is only an information copy of the transaction, for use with the Component UIT registry. Cite the applicable Routing Identifier in 2/N104.</i></p> <p><i>2. Authorized DLMS enhancement for Air Force use with PIC NWRM UIT program. For PIC UIT, must use in conjunction with 2/N106 code PK and cite the applicable Routing Identifier in 2/N104.</i></p>	<p>Staffing Note: AF must verify that a Routing Identifier has been assigned for the PIC Fusion Center.</p>
11	2/N106/90	<p><u>Add new DLMS Qualifier and DLMS note :</u></p> <p><i>PK Party to Receive Copy</i> DLMS Notes:</p> <p><i>1. Use when appropriate to send an information copy to a Component UIT registry. For use with N101 code 'KK'.</i></p> <p><i>2. Authorized DLMS enhancement for Air Force use with PIC NWRM UIT program. For PIC UIT, must use in conjunction with 2/N101 code 'KK' and cite the applicable Routing Identifier in 2/N104.</i></p> <p><i>3. Except as noted above, DLMS enhancement; Refer to ADC 407.</i></p>	<p>To clearly identify that the 870S transaction is an information copy for AF PIC Fusion use.</p>

(5) Update DoD 4000.25-M, Vol 3, Chapter 2, Retail Supply and Transportation Interchange (Stock and Non-Stock Shipments), as shown in Enclosure 1. DLMS Vol 3 has been distributed via approved DLMS change; formal publication is pending.

(6) Update DoD 4000.25-M, Vol 2, Chapter 5, Status Reporting, and Chapter 19, Unique Item Tracking, to add the 870S procedures as shown in Enclosure 2

6. REASON FOR CHANGE:

a. The changes are proposed to ensure increased asset/shipment visibility of critical Air Force items. The inclusion of UIT/Serial Numbers on the ILS-S (Air Force Retail Supply) Supply Status transaction (870S) will provide intransit visibility and accountability of all government assets being shipped within the Defense Transportation System (DTS). In addition, the transactions will provide end-users an electronic method of obtaining shipment data and status codes on specific line items upon inquiry.

b. The primary reason for adding the UIT/Serial Number to the ILS-S (Air Force Retail Supply) 870S (Supply Status) transaction is to immediately provide notification of any cargo movement involving an NWRM item. This transaction is an initial alert that a cargo movement is going to take place. The change allows the creation of an information copy (image) of the transaction for routing to the Air Force PIC NWRM. The purpose of this requested action is to provide AF NWRM PIC visibility of Air Force NWRM assets transacted through the Standard Base Supply System (SBSS)/Integrated Logistics.

c. Once the item has been received and processed through transportation an 856S (Ship Status) will be produced with the UIT/Serial Number information - this transaction tells the recipient that the cargo movement has taken place. This capability will replace the interim capability described in ADC 316A where UII/serial numbers were added to the CMOS 940R. It was decided then that we would eventually remove the UII/serial numbers from the CMOS 940R and replace it with the use of UII/serial numbers on the supply status transactions.

7. ADVANTAGES AND DISADVANTAGES:

a. **Advantages:** Adding UII/serial number data to the transaction set will improve asset visibility throughout the transportation processing and movement cycle while decreasing cargo movement processing times. The changes will also allow the transportation and supply activities to communicate in the clear status information electronically for each line item. The proposed changes to the supplements enable DLMS compliant systems to use extended DLMS enhancements that would not otherwise be available in a MILS environment; while MILS-based supply systems will be able to interface with transportation, through transformation of data by DLA Transaction Services.

b. **Disadvantages:** None.

8. ALTERNATIVES: Several alternative approaches may be considered in implementing the requested change:

a. Authorize inter-Service flow of base-level supply status, or

b. Require SBSS/ILS-S to recognize inter-Service use and block identification of non-Air Force transaction supply status recipients (these activities would receive supply status from the ICP under MILSTRIP business rules).

9. Implementation Schedule: The changes necessary for DLA Transaction Services to support this ADC will be in place by February 2011. Actual implementation requires establishment of a unique routing identifier for PIC Fusion and a DAAS interface for transaction exchange.

10. IMPACT:

a. **Routing Identifier Code.** The USAF shall assign a routing identifier for use in transactions requiring distribution to the PIC Fusion Center.

b. **ILS-S to Implement DLMS:** Supply Status 870S for serialized item tracking will be generated per procedures described above.

b. **Implementation of IUID Policy.** The implementation of this UIT requirement is not dependent upon the further perpetuation of the 870S serial number/UII. However, the goal is

that the UII/serial numbers be provided on the 856S Shipment Status under planned DoD policy for shipment of NWRM. The use of the 870S is not currently envisioned for use in this context under DoD policy and is considered a unique Air Force requirement.

c. UII/Serial Number Reconciliation. Procedures must be established for comparison between the list of UIIs/serial number identified by the Air Force supply activity on the 870S Supply Status and those items actually shipped as identified by the CMOS transportation activity on the 856S Shipment Status. Reconciliation and any potential corrective actions must be specified in the procedures.

d. DAAS Mapping/Routing.

(1) DAAS updates are required to prepare the information copy of the supply status based upon inclusion of the Party to Receive Copy as an intended recipient.

(2) DAAS update for conversions from DLMS to 80-rp legacy supply status format is required for this use of the 870S. It is understood that UII/serial numbers will be dropped when converted to the legacy format.

Field Name	Record Position (DLSS)	Conditions	DLMS Data Element	Table
Owning Inventory Control Point	4-6	If RP1-2=AB or AE	N101=Z4 N103=M4 N104=RP 4-6 N106=FR	1
Activity Preparing Status for Lateral Movement (For Intra-AF, DLMS to MILS only)	4-6	If RP1-3=AE1 or AE2	N101=1Q N103=M4 N104=RP 4-6 N106=FR	1

(3) **DLA Transaction Services** will block AF-unique DLMS Supply Status (citing N101=1Q) from being transmitted to non-AF customers (via either conversion to 80-rp format or in its original DLMS format). It is anticipated that the 80-rp AE1/AE2 will be phased out under the ILS-S implementation, therefore no special rules are provided for the 80-rp conversion to DLMS. Conversion of the AE1 or AE2 provided by non-DLMS AF activities will be converted to DLMS using the Z4 qualifier.

11. COST SAVINGS/AVOIDANCE/TANGIBLE BENEFITS:

a. Cost Savings/Avoidance: There may be a cost savings by reducing the man-hours used in managing the shipment/asset status of critical Air Force items. The use of the ‘automatic’ electronic transactions that will carry the UII/serial number data will reduce the number of man hours required for the otherwise manual intensive process of managing shipment/asset status.

c. Tangible Benefits:

(1) Provides near real time shipment/asset status of SBSS shipments to DAAS, PIC Fusion Center supporting NWRM control.

(2) See also “Advantages” listed in paragraph 7 above.

ENCLOSURE 1, DLMS Volume 3, Chapter 2

Remove selected text as indicated:

C2. CHAPTER 2 RETAIL SUPPLY AND TRANSPORTATION INTERCHANGE (STOCK AND NON-STOCK SHIPMENTS)

C2.1. GENERAL. This chapter provides procedures for use in retail transportation and supply processes related to the transportation in-check of cargo from a supply warehouse and subsequent outbound shipment by the servicing transportation activity. This interchange creates a virtual warehouse between supply and transportation by standardizing a supply-transportation interchange and provides intransit visibility and accountability of government assets shipped in the Defense Transportation System (DTS). The transactions provide users with an electronic method of obtaining shipment data and status on specific line items upon inquiry.

C2.2. BACKGROUND. The information described in this section implements a standardized interchange between retail transportation and supply through the use of EDI transactions. For material requirements processed using standard MILSTRIP and DLMS procedures, the standardized interchange employs DS 940R (Warehouse Shipping Order) and DS 945A (Warehouse Shipping Advice). This standard provides retail supply systems the ability to pre-position release order data in transportation, to submit follow-up status messages to transportation requesting updated shipment status, and to submit cancellation requests to transportation for release orders already turned over to transportation for shipment planning and execution. The standard also provides retail transportation systems the capability to provide supply status messages to supply, to provide cancellation response messages to supply, and to submit material release confirmation messages to supply when the material has shipped.

C2.3. STOCK SHIPMENT PROCEDURES

C2.3.1. Supply and Transportation Systems. Initially there are five Automated Information Systems (AIS) that are expected to use this standardized interchange between retail transportation and supply activities. They are the Defense Medical Logistics Standard Support (DMLSS), Global Combat Support System – Marine Corps (GCSS-MC), USAF Expeditionary Combat Support System (ECSS) and the Standard Base Supply System (SBSS) which represent the supply systems for their respective business areas. The Cargo Movement Operations System (CMOS) represents the transportation system. Systems other than those mentioned in this document, planning to use these standardized interchange transactions to implement a similar capability must coordinate with DLMSO and United States Transportation Command (USTRANSCOM) prior to attempting to implement the interchange.

C2.3.2. Retail Supply Activity. This paragraph provides general procedures for retail supply activities related to the delivery of items to the servicing transportation activity for further shipment.

C.2.3.2.1 Pre-positioned Release Order. For designated supply trading partners, DAAS shall transmit copies of the DS 940R, Material Release Order/Disposal Release Order/Redistribution Order, (DICs A2_/A5_/A5J/A4_) transactions to the designated transportation system to be pre-positioned awaiting actual arrival of cargo from the supply warehouse.

C.2.3.2.1.1 For designated supply trading partners (currently limited to the SBSS - CMOS interface) the Materiel Release 940R will be used to pass Federal Logistics Information System (FLIS) NSN item data (as identified in the 940R) that is not otherwise available to CMOS. This is an interim measure pending establishment of a FLIS interface.

~~C.2.3.2.1.2. Pre-designated supply trading partners (currently limited to the SBSS - CMOS interface), an information copy (image) of the Material Release 940R will be used in support of Air Force PIC Fusion program data requirements. The routing of a additional information only copy of the DLMS standard transaction is authorized for forwarding PIC fusion data needed for Air Force UIT registry. This is a specific authorized use with unique identifiers to flag the transaction as information only.~~

Enclosure 2, DLMS Manual Volume 2

A. Chapter 5. Insert the following paragraphs in Chapter 5, Status Reporting:

C.2.5.2.XX Air Force Integrated Logistics Solution-Supply (ILS-S) (Retail Supply) Supply Status (870S) shall be used on an intra-Air Force basis to provide the latest status to the intended receiving activity. Additionally, supply status will be used to support the unique item tracking (UIT) program for Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM) by providing UII and/or serial numbers. For legacy items where the unique item identifiers (UIIs) has not been marked in accordance with Item Unique Identification (IUID) policy, the serial number alone will be passed.

C2.52.XX.1 DLA Transaction Services shall enable transmission of information copies of the ILS-S Supply Status to the NWRM PIC Fusion Module UIT Registry to ensure the PIC NWRM program has near real time access to UIIs and the associated serial numbers of NWRM item movements.

C2.52.XX.2. DLA Transaction Services shall block transmission of ILS-S Supply Status to non-Air Force recipients where feasible.

B. Chapter 19.

(1) Insert the following paragraph in Chapter 19, Unique Item Tracking, and renumber remaining paragraphs:

C.2.19.13 Air Force Integrated Logistics Solution-Supply (ILS-S) (Retail Supply) Supply Status (870S) shall be used on an intra-Air Force basis to provide the latest status to the intended receiving activity including UII and/or serial number in support of UIT for Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM). For legacy items where the UII has not been marked in accordance with IUID policy, the serial number alone will be passed. DLA Transaction Services shall enable transmission of information copies of the ILS-S Supply Status to the NWRM PIC Fusion Module UIT Registry to ensure the PIC NWRM program has near real time access to unique item identifiers (UIIs) and the associated serial numbers of NWRM item movements.

(2) Add 870S to Table C19.T1, DLMS Transactions with UIT Capability:

DS #	TITLE	Process IAW (DLMS Volume, Chapter)
870S	<i>Supply Status</i>	<i>Vol 2, Chapter 5</i>