



**DEFENSE LOGISTICS AGENCY**  
HEADQUARTERS  
8725 JOHN J. KINGMAN ROAD  
FORT BELVOIR, VIRGINIA 22060-6221

IN REPLY  
REFER TO DLMSO

June 26, 2009

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC) MEMBERS

SUBJECT: Approved Addendum to Approved Defense Logistics Management System (DLMS) Change (ADC) 316A, USAF Requirements for Item Record Data and Unique Item Tracking (UIT) using the Materiel Release (DLMS Supplement 940R) under Transportation and Supply Receipt and Acknowledgement Interchange (Supply) (Staffed as Proposed Addendum to ADC 316A)

The attached change to DOD 4000.25-M, DLMS, is approved for implementation. The updated DLMS Supplements will be posted to the Defense Logistics Management Standards Office (DLMSO) Web site [http://www.dla.mil/j-6/dlmsso/elibrary/TransFormats/140\\_997.asp](http://www.dla.mil/j-6/dlmsso/elibrary/TransFormats/140_997.asp) within 10 days from the above date for implementation planning.

Addressees may direct questions to the DLMSO points of contacts, Ms. Heidi Daverede, 703-767-5111; DSN 427-5111; or, e-mail: [heidi.daverede@dlmso.mil](mailto:heidi.daverede@dlmso.mil), or Ms. Ellen Hilert, Chair, Supply Process Review Committee, 703-767-0676, DSN 427-0676, or e-mail: [ellen.hilert@dlmso.mil](mailto:ellen.hilert@dlmso.mil). Others must contact their Component designated representative

A handwritten signature in black ink, appearing to read "Donald C. Pipp", with a large, stylized flourish at the end.

DONALD C. PIPP  
Director  
Defense Logistics Management  
Standards Office

Attachment

cc:  
DUSD(L&MR)SCI

**Approved Addendum to ADC 316A**  
**USAF Requirements for Item Record Data and UIT using the Materiel Release (DS 940R) under**  
**Transportation and Supply Receipt and Acknowledgement Interchange**

**1. ORIGINATOR:** Department of the Air Force, 754th ELSG/ILSS, DSN 596-2012; Commercial (334) 416-2012

**2. FUNCTIONAL AREA:**

- a. **Primary:** Supply/Transportation Interface [SBSS/CMOS]
- 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), (Staffed as PDC 324), 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 Standard Base Supply System (SBSS) - Cargo Movement Operations System (CMOS) interface in association with implementation of the ADC 316 procedures for retail transportation and supply receipt and acknowledgement interchange. The change will allow SBSS to perpetuate selected item record (NSN) data and serialized control numbers/unique item identifiers (UII) in the 940R Material Release transaction. CMOS requires selected item record data for each shipment record that CMOS builds. This information, derived from the Federal Logistics Information System (FLIS), is not currently available to CMOS. This change provides for the inclusion of serial number and unique item identifiers for applicable items in support of an approved UIT program for Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM) (UID Designator Code AAJ).

**(2) ILS-S/SBSS test and implementation schedule:**

MAR 2009	<ul style="list-style-type: none"> <li>- Contracting action approved for ILS-S/SBSS to implement NWRM PIC requirement.</li> <li>- Added NWRM PIC requirement to on-going ILS-S/SBSS software development schedule. Current schedule is in the Functional Testing phase. The development phase has been completed.</li> <li>- Additional development time was inserted to accommodate the NWRM PIC development.</li> </ul>
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	This development time did not impact schedule since it runs concurrent with Functional Testing of the other functionality in the release.
15 MAY 2009	Complete NWRM PIC Development
3 JUN 2009	Complete NWRM PIC Testing
30 JUN 2009	Complete Integration Zone Testing
04 AUG 2009	Complete Pre-Production and Security & Accreditation Activities
10 AUG 2009	Implement in production at limited bases for Lead Base Testing
14 SEP 2009	Implement worldwide

(3) CMOS plans to begin testing in September 2009 of CMOS version 7.3. This release will implement the requirements of this proposed addendum in September 2009. Fielding is tentatively scheduled between January and April 2010.

(4) Currently the ILS-S/SBSS (AF Retail Supply) passes shipment data to CMOS via a system to system interface. The use of the 940R Material Release and 945A Material Release Advice transactions will replace the CMOS / SBSS interface. As an interim plan for implementation of ADC 316 pending full DLMS capability, CMOS will receive shipment data in a DLMS 940R-based User Defined file (UDF) resulting from DAAS conversion. CMOS will respond via a DLMS 945A-based UDF and from there DAAS will create a 945A transaction and send this back to ILS-S to complete the data exchange process.

(5) Clarification/Background concerning authoritative source/oversight for incorporating PIC NWRM. The 754th ELSG/ILSS has participated in numerous NWRM working groups since the Spring of 2008. During these sessions, it soon became evident that near real time access of asset movement data across the Air Force supply chain, including asset serial number was fundamental to the NWRM tracking requirement. As the group worked through the NWRM requirements for Positive Inventory Control (PIC), SBSS became aware of the concurrent ADC 316 to implement a standardized interchange between retail transportation and supply with the use of the Material Release (940R). Given the secondary objective of the ADC to provide “Supply chain visibility and accountability”, the NWRM working group viewed the ADC as an opportunity to enhance PIC capabilities via the inclusion of serial numbers in the DLMS shipment transactions. The inclusion of serial numbers of shipped assets in the 940R transactions would enable the developers of the LIMS-EV PIC fusion center capability to obtain information down to the serial number level, in near real time whenever SBSS outbound shipment events are reported to CMOS via DLMS 940R transactions passing through DAAS. Below we have detailed the events and participants for this requirement:

- Since March 2008 - the 754th ELSG/ILSS has been an integral member of the NWRM/PIC initiative, representing the supply community, since the initial Taiwan incident
- September 2008 - AF/A4LM initiated discussion on this NWRM need via email with DLA (DLMSO). The NWRM group further envisioned that CMOS would perpetuate the 940R serial number data in subsequent DLMS transactions to report the physical shipment details; and that those CMOS DLMS transactions would also be visible to the PIC fusion center via DAAS. Finally, the NWRM working group envisioned that the CMOS data system would propagate the shipped asset serial number data through to the Global Transportation Network (GTN), thus enabling supply chain tracking via the GTN web service.
- October 2008 - at the NWRM General Officer Steering Group, the participants

emphasized the importance of prioritizing and completing the work the 754 ELSG would do in support of NWRM positive inventory control.

- October 2008 -- March 2009 – Some initial shipment and serial number capabilities were implemented in ILS-S/SBSS in support of NWRM PIC, but did not include adding serial number to transactions and providing the data to the NWRM PIC Fusion or CMOS systems.
- 12 March 2009 – A meeting was held at 754th ELSG to establish a 754th ELSG Positive Inventory Control (PIC) Information Team (IT). This meeting was prompted by the Director of HQ 754th ELSG. The purpose of the meeting was to establish a team for positioning the group to support/execute enterprise PIC requirements, and organize/accelerate actions to implement NWRM PIC requirements. The ILSS requirement formalized during the meeting was to include serial number data in shipment transactions and make available for enterprise use, especially to the LIMS-EV PIC Fusion and CMOS system. The source of the ILSS requirement is the PIC IPT Data Team, AF/A4/7 and A4LM. The ILT requirement formalized during the meeting was to include serial number data in transportation transactions. The source of the ILT requirement is AF/A4LM.

(6) This standard exchange provides the ability to pre-position release order data in transportation, submit follow-up status messages to transportation requesting updated shipment status, submit cancellation requests to transportation for release orders already turned over to transportation for shipment planning and execution, provide supply status messages from transportation to supply, provide cancellation response messages from transportation to supply, and submit material release confirmation messages from transportation to supply when the material has shipped.

(7) ILS-S will stop sending shipment notification data via the system to system exchange (SBSS/CMOS) known as Interactive Communications Interface (ICI).

(8) Upon preliminary review of this PDC, DLMSO notified the Air Force that UIT by serial number is only authorized for approved UIT Programs and that even these are required to transition to use of DoD Item Unique Identification (IUID) procedures. The Air Force 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 this segment to identify both the serial number and the UII.

(9) The LIMS-EV PIC Fusion system has an immediate need to include item data in the 940R in the interim until the transformation initiative to directly obtain item data from FLIS is realized. LIMS-EV PIC Fusion system prefers other systems provide the item data as well in the 940R if the system is architected to do so.

(10) DLMSO requested that the Air Force coordinate with USTRANSOM for approval to track within transportation by serial number/UII using USTRANSCOM-managed transactions. DLMSO expressed concern about this requirement because it may not be consistent with the approach being

advanced by OSD - Supply Chain Integration (SCI). Under the current concept of operation, UII (or serial number where UII is not available) will remain within the supply transaction exchange and not be perpetuated to transportation transactions. Instead, the transportation transactions will be associated with the supply transactions within visibility applications by linking on key identifiers, such as the Transportation Control Number and Document Number. The Air Force approach is that the 940R under this SBSS-CMOS interface will contain serial number/UII for the specified UIT program and USTRANSCOM will not retain this information downstream. The serial number/UII in the 940R that ILS-S sends to CMOS supports unique Air Force NWRM processing. It provides a temporary linkage between the serial number/UII and the document number to support asset visibility data fusion. In addition, it supports requirements to validate/verify package contents prior to TMO sealing the package. Serial number/UII discrepancies discovered by the TMO will be researched and/or resolved manually, off-line, with the retail supply warehouse. The longer term plan is to carry the serial number/UII in the DS 856S when Air Force legacy systems are replaced by the Expeditionary Combat Support System (ECSS).

(11) DLMSO initially non-concurred with the passing of data elements in the 940R, derived from Federal Logistics Information System (FLIS) as part of the SBSS-CMOS interface. DLMSO requested that the Air Force further explore alternatives. As currently documented in this addendum, the provision to provide FLIS data elements in the 940R to CMOS is limited to SBSS/ES-S; all other supply systems (e.g. DMLSS) will default to the original business rules from ADC 316. FLIS data will be passed on the DLMS 940R transaction on an interim basis for the SBSS-CMOS interface only. The next opportunity to introduce a FLIS interface into CMOS is in CMOS release version 7.5. Based upon the information provided, the earliest a FLIS/CMOS interface could be developed is August 2011.

**b. Scenario for which the transaction is used:**

(1) ILS-S will create a 940R DLMS transaction each time a Cargo Movement transaction occurs in the SBSS/ES-S. The following Air Force TRICs/DICs are considered Cargo movements: [A2(X), A4(X), A5(X), DOR\*, FME, FTA, FTR, ISU\*, MSI\*, RAR, SHP, 1ET]. (Note: \*Applies to off-base organizations only.)

(2) ILS-S will create a 940R DLMS transaction each time a Cargo Movement transaction has been reverse posted in the SBSS or cancelled in ES-S. This 940R is a request for cancellation when received by CMOS. CMOS will respond with a 945A transaction. There are no changes (from ADC) for this transaction; no additional data is required.

(3) ILS-S will create a 940R DLMS transaction each time a Cargo Movement transaction requires a follow up for status. CMOS will respond with a 945A transaction. There are no changes (from ADC) for this transaction; no additional data is required.

**c. Current data elements in use today:**

Today the SBSS and CMOS have a system to system interface. These transactions are system user defined files and these records are not passed to DAAS. The following table lists the SBSS data element titles that are passed today on the Advance Shipment Notification:

**SBSS EVENT RECORD FORMAT**

**DTD: 6 APR 2009**

<u>Position</u>	<u>Positions</u>	<u>TITLE</u>
1	1	CMOS FLAG

2-4	3	DOCUMENT-IDENTIFIER-CODE
5	1	DEMILITARIZATION-CODE
6-9	4	TRANSPORTATION ACCOUNT CODE (TAC)
10	1	SECURITY-CLASSIFICATION-CODE
11-24	14	DOCUMENT-NUMBER
25	1	SUFFIX-CODE (is this part of the doc number)
26-31	6	SHIP-FROM-SRAN
32-37	6	SHIP-TO-SRAN
38-40	3	SHIP-TO-RID
41-55	15	NATIONAL-STOCK-NUMBER
56-74	19	ITEM-NOMENCLATURE
75-76	2	UNIT-OF-ISSUE
77-81	5	QUANTITY-TO-BE-SHIP
82-87	6	SUPP ADDRESS
88-89	2	SYSTEM-DESIG
90-91	2	PRIORITY
92-115	24	SHIP-TO-NAME
116-139	24	SHIP-TO-STREET-ADDRESS
140-157	18	SHIP-INSTALLATIONS OR CITY
158-162	5	STATE OR COUNTRY (ABBREVIATION)
163-171	9	ZIP-CODE
172-180	9	SPECIAL-PACKING-INSTRUCTION-NUMBER
181-182	2	TYPE-CARGO-CODES
183-188	6	NATIONAL MOTOR FREIGHT CLASSIFICATION CODE
189-195	7	ORDNIAL-DATE
196-205	10	SERVICEABLE-BALANCE
206-215	10	UNIT-PRICE
216-226	10	EXTENDED-COST
227	1	PRECIOUS-METALS-CODE
228-230	3	ERRCD
231-233	3	RID
234	1	CONDITION-CODE
235-245	11	WAREHOUSE-LOCATION
246-252	7	DATE-OF-LAST-TRANSACTION
253-255	3	REQUIRED-DELIVERY-DATE
256-258	3	PROJEC-CODE
259	1	SERIALIZED-REPORT-CODE
260-1159	15	SERIAL NUMBER (UP TO 60 ADDITIONAL SERIAL NUMBERS)

**d. Current Document Identifier Codes and DLMS IC's in use today:** N/A - Today the SBSS and CMOS have a system to system interface. These transactions are system user defined files and these records are not passed to DAAS. The following Air Force TRICs/DICs are passed as part of the system to system User defined Files: [A2(X), A4(X), A5(X), DOR, FME, FTA, FTR, ISU, MSI, RAR, SHP, 1ET].

## 5. PROPOSED CHANGE(S):

### a. Description of Change:

(1) ADC 316A is an addendum to ADC 316, Retail Transportation and Supply Receipt and Acknowledgement Transactions. This change will incorporate additional data content and procedures for UIT where applicable **for SBSS and CMOS system interfaces**. Coupled with ADC 316, this change will implement a standardized interchange between retail transportation and supply through the use of EDI transactions, specifically the Material Release, 940R, and Material Release Advice 945A.

(2) UIIs and/or serial numbers when applicable (up to 60 sets) will be included on the 940R transaction when the item falls under the **Air Force** PIC NWRM program. Additional data elements, primarily FLIS data associated with the NSN will also be included for all 940R transactions. This data, when present will be passed to DAAS from ILS-S on the DLMS transaction. DAAS receives and translates the 940R transaction into a CMOS UDF.

(3) CMOS will use a UDF to receive/communicate data. DAAS will perform the translation into/from the DLMS 940R and 945A transactions. CMOS is not currently resourced to provide EDI translation/conversion services. DAAS has provided data translation services as a cost effective solution. CMOS expects to become fully DLMS compliant sometime between FY 2012 and 2014 when the system becomes web enabled.

**b. Procedures:**

- (1) Refer to Enclosure 1 and 2 for DLMS manual procedures.
- (2) Update the Materiel Release 940R as follows:

#	Location	Revision to 4030 940R, Material Release	Reason for Change /SBSS Notes
1	DLMS Introductory Note	<p><u>Add Approved Addendum to ADC 316A to DLMS Introductory note:</u></p> <p><b>- Approved Addendum to ADC 316A, USAF Requirements for Item Record Data and Unique Item Tracking (UIT) using the Materiel Release (DS 940R) under Transportation and Supply Receipt and Acknowledgement Interchange.</b></p>	To identify changes in the DS.
2	2/N901/1500	<p><u>Add DLMS note 2 to existing code SE:</u></p> <p>SE Serial Number  <b>DLMS Note:</b>            1. Use to identify the serial number. The serial number may not exceed 30 characters in accordance with IUID policy.  <b>2. Use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS to provide the serial number under PIC NWRM UIT program. 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 this interface.</b></p>	To perpetuate serial numbers on shipment notifications. This allows for increased asset visibility.
3	2/N901/1500	<p><u>Add DLMS note 2 to existing code U3:</u></p> <p>U3 Unique Supplier Identification Number (USIN)  <b>DLMS Note:</b>            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".</p>	To perpetuate UIIs on shipment notifications. This allows for increased asset visibility.

		<b>2. Use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS to provide the UII under PIC NWRM UIT program. A maximum of 60 items may be identified for this interface.</b>	
4	2/W0106/0200	<p>Add DLMS note 2 to existing code CN:</p> <p>CN Commodity Name</p> <p><b>DLMS Note:</b></p> <p>1. Use with W0104 code FT to identify the commodity name or description when citing the Federal Supply Classification.</p> <p><b>2. Use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement SBSS interface with CMOS to provide the NSN nomenclature when FLIS item data is not otherwise available to CMOS. Field size for SBSS – CMOS is restricted to 19 positions.</b></p>	<p>To perpetuate FLIS item record data onto the shipment notifications. Data is required by CMOS.</p> <p>SBSS Event Pos 56-74</p>
5	2/N901/0400	<p>Add the following code KD with DLMS notes:</p> <p><b>KD Special Instructions Number</b></p> <p><b>DLMS Note: Use only when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS to provide Special Packing Instruction (SPI) Code/Reference Number when FLIS item data is not otherwise available to CMOS. Field size for SBSS – CMOS is restricted to a maximum of 9 positions (alpha/numeric).</b></p>	<p>To perpetuate FLIS item record data onto the shipment notifications. Data is required by CMOS.</p> <p>SBSS Event Pos 172-180</p>
6	2/LQ01/1300	<p>Add DLMS note 2 to existing code FD:</p> <p>FD Demilitarization Code</p> <p><b>DLMS Note:</b></p> <p>1. Use in disposal release orders and historical disposal release orders, to identify any demilitarization actions, which must take place prior to disposal.</p> <p><b>2. Use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS when FLIS item data is not otherwise available to CMOS.</b></p>	<p>To perpetuate FLIS item record data onto the shipment notifications. Data is required by CMOS.</p> <p>SBSS Event Pos 5</p> <p>CMOS requires this data for all MROs.</p>
7	2/LQ01/1300	<p>Add the following code EQ with DLMS notes:</p> <p><b>EQ Controlled Inventory Item Code</b></p> <p><b>DLMS Note: Only use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement SBSS interface with CMOS when FLIS item data is not otherwise available to CMOS.</b></p>	<p>To perpetuate FLIS item record data onto the shipment notifications. Data is required by CMOS.</p> <p>SBSS Event Pos 10</p>
8	2/LQ01/1300	<p>Add the following code NT with DLMS notes:</p> <p><b>NT Type of Cargo Code</b></p> <p><b>DLMS Note: Only use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS. Use a maximum of</b></p>	<p>This requirement will continue after CMOS FLIS Interface.</p> <p>SBSS Event Pos 181-182</p>



		<i>repetitions to identify two cargo codes.</i>	
9	2/LQ01/130 0	<p><u>Add the following code NK with DLMS notes:</u></p> <p><b>NK National Motor Freight Classification (NMFC) Code</b>  <b>DLMS Note: Only use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS.</b></p>	<p>To perpetuate Air Force item record data onto the shipment notifications. Data is required by CMOS. SBSS Event Position 183-188</p>
10	2/AMT01/08 00	<p><u>Add the DLMS note 4 to existing code LI:</u></p> <p>LI Line Item Unit Price  DLMS Note: 1. Use with material release order transactions to indicate the unit price.  2. A field size exceeding 7 positions (5 digits dollars and 2 digits cents) may not be received or understood by the recipient's automated processing system.  3. Under DLMS, the unit price will be expressed as R9.2. Authorized DLMS migration enhancement; see introductory DLMS 4f.  <b>4. The DLMS field length is authorized when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS.</b></p>	<p>SBSS Event Pos 206-215  Requires formatting to match DLMS R9.2 from original SBSS 10 pos numeric</p>
11	2/LQ01/130 0	<p><u>Add DLMS note 2 to existing code 90:</u></p> <p>90 Precious Metals Indicator Code  <b>DLMS Note:</b>  1. Use in disposal release orders and historical disposal release orders, to identify the precious metal content of the specified material.  <b>2. Use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS when FLIS item data is not otherwise available to CMOS.</b></p>	<p>Clarifies required SBSS-CMOS use. SBSS Event Pos 227</p> <p>CMOS requires this data for all MROs.</p>
12	2/N901/0400	<p><u>Add the following code BY with DLMS notes:</u></p> <p><b>BY Repair Category Number</b>  <b>DLMS Note: Use only when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS to provide the Air Force Expendability-Recoverability-Reparability Category Code (ERRCD) when FLIS item data is not otherwise available to CMOS. Code list is available at FLIS Table 69.</b></p>	<p>To perpetuate FLIS item record data onto the shipment notifications. Data is required by CMOS.</p> <p>SBSS Event Pos 228-230</p>
13	2/N101/1100	<p><u>Add the following code SUS with DLMS notes:</u></p> <p>SUS Supply Source  <b>DLMS Note: Use only when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS to provide the Routing Identifier Code of the Source of Supply when FLIS item data is</b></p>	<p>SBSS Event Pos 231-233</p>

		<b>not otherwise available to CMOS.</b>	
15	2/N901/0400	Add the following code TH with DLMS notes: <b>TH Transportation Account Code (TAC)</b> <b>DLMS Note: Only use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS.</b>	SBSS Event Pos 6-9 This data currently resides in a SBSS table. At this time, there is no effort to obtain this data from its source.
16	2/N101/1100	Add DLMS note 4 to existing code DS:  DA Delivery Address <b>DLMS Note:</b> 1. Use with 2/N2/1101, 2/N3/1102, and 2/N4/1103 to identify fully in-the-clear exception ship-to address information under authorized conditions. 2. Use for MRO Exception Data Transaction to indicate the ship-to clear-text exception address is a MRO Type Address Code (TAC) 2 (ship-to) freight address. 3. DLMS enhancement; see introductory DLMS notes 4a and 4e. <b>4. Use when this transaction supports the Retail Transportation and Supply Receipt and Acknowledgement Interchange SBSS interface with CMOS to provide the shipping address when not associated with a DoDAAC.</b>	80 pos, SBSS Event Pos 92-171

## 6. REASON FOR CHANGE:

The changes are proposed to standardize a retail **transportation and supply** electronic interface in order to 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.

## 7. ADVANTAGES AND DISADVANTAGES:

**a. Advantages:** This interface will provide a bi-directional exchange of shipment data transactions between retail **transportation and supply** systems. Adding these capabilities to the transaction sets 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 on 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 DAASC.

**b. Disadvantages:** Programming to support the additional FLIS data content in the 940R is a temporary requirement to meet Air Force implementation schedules and will not be necessary once the FLIS interface for CMOS is established; target date is August 2011. The addition of UII/serial number information into the 940R is not standard under the IUID business rules being developed by the Joint IUID working group, chaired by OSD-SCI. This requirement will be carried in the 940R pending DS 856S implementation by the Air Force ERP system, ECSS.

## 8. ALTERNATIVES:

a. Alternate methods of obtaining item record data has been pursued/considered and currently do not meet the technical or implementation schedule requirements (e.g. use of a CD ROM containing catalog data). CMOS plans to pursue a FLIS (catalog data) interface to receive item record data in a future release.

b. The plan is for ILS-S and CMOS to eventually transition to UII tracking using IUID business rules. In the interim, the 940R will accommodate both the serial number and the UII when available.

## **9. IMPACT:**

a. ILS-S to implement DLMS transactions – Material Release, 940R, and Material Release Advice, 945A.

b. HQ USAF coordinated with USTRANSCOM concerning the perpetuation of the serial number/UII into transportation business processes. USTRANSCOM stated that there is no plan to carry the IUID information in transportation transactions; that information will be “fused” through the use of the DS 856S, Shipment Status message.

c. The implementation of this UIT requirement is not dependent upon the further perpetuation of the 940R serial number/UII.

d. **Sensitivity of Data Content** – The lead AF catalog manager (HQ AFMC/401 SCMS/GUMB) has verified that all of the item record data that AF will be passing in the DLMS transaction is NOT restricted in any manner and that the passing of this data in a single transaction does not present a risk to the data.

e. See ADC 316 for additional impacts.

## **10. COST SAVINGS/AVOIDANCE/TANGIBLE BENEFITS:**

### **a. Cost Savings/Avoidance:**

- There may be a cost savings within DISA associated with eliminating the CMOS system to system interface. At this time, Air Force has not done an analysis to determine any cost savings.

### **b. Tangible Benefits:**

- Provides near real time shipment status of SBSS shipments to CMOS, DAAS, PIC Fusion Center – and supports NWRM control.
- Standardizes data transaction sets for CMOS interfaces.
- See also “Advantages” listed in paragraph 7 above.

**Enclosure 1, DoD 4000.25-1-M, Volume 3**

Addendum to ADC 316A revisions are identified in *bold italics*:

**C2. CHAPTER 2**

**RETAIL TRANSPORTATION AND SUPPLY INTERCHANGE**  
**(STOCK AND NON-STOCK SHIPMENTS)**

C2.3.2. RETAIL SUPPLY ACTIVITY. This section 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 Material Release Order/Disposal Release Order/Redistribution Order 940R (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 For designated supply trading partners (currently limited to the SBSS - CMOS interface) the Materiel Release 940R will be used to support the unique item tracking (UIT) program for Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM). Unique item identifiers (UIIs) and the associated serial number will be passed in the 940R for each item meeting the PIC NWRM program criteria. For legacy items where the UII has not been marked in accordance with Item Unique Identification (IUID) policy, the serial number alone will be passed. This is an interim measure pending transition to tracking by UII and associated IUID business rules/transactions. DLMS Vol II, Chapter 19, UIT procedures apply (with exceptions as noted).***

C2.3.2.2. Delivery and Incheck. The supply activity will make local deliveries of the items to be shipped to the servicing transportation activity. The line items shall be inchecked by the transportation activity based on the cargo and the documentation received from the supply activity.

C2.3.2.3. Shipment Documentation. The material for shipment will be delivered to the servicing transportation activity by the retail supply activity accompanied by a DD Form 1348-1A, Issue Release/Receipt Document (IRRD). DoD 4000.25-1-M, Military Standard Requisitioning And Issue Procedures (MILSTRIP) Manual, Chapter 5, Release and Receipt of Materiel, documents procedures for the use and generation of the IRRD.

C2.3.2.4. Follow-up Requests. The supply system will initiate a Material Release

Inquiry/Disposal Release Inquiry 940R (AF6/AFJ) message for follow-up requests. Based upon elapsed time from either the initial release of the material release order/disposal release order/redistribution order or the estimated shipping date from the material release advice/disposal shipment advice, the supply system will initiate the inquiry using normal follow-up procedures as documented in DoD 4000.25-1-M, Chapter 2, paragraph C2.13; the only exceptions relate to multi-packs (see DoD 4000.25-M, Volume 3, Chapter 2, paragraph C2.3.6) and assemblages, e.g., medical (see DoD 4000.25-M, Volume 3, Chapter 2, paragraph C2.3.7).

C2.3.2.5. Cancellation Requests. The supply system will initiate a Material Release Cancellation/Disposal Release Cancellation 940R (AC6/ACJ) message for cancellation requests. DoD 4000.25-1-M, Chapter 2, paragraph C2.17 prevails; the only exceptions relate to multi-packs (see DoD 4000.25-M, Volume 3, Chapter 2, paragraph C2.3.6) and assemblages, e.g., medical (see DoD 4000.25-M, Volume 3, Chapter 2, paragraph C2.3.7).

C2.3.2.6. Shipment Status Message. When the retail supply activity receives the material release confirmation for a multi-pack, they shall associate it with all the document numbers that were contained in the initial material release order, generate the required Shipment Advice 856S (AS\_) shipment status transactions for the multi-pack and transmit to DAAS for distribution per existing procedures and trading partner profiles. When the retail supply activity receives the material release confirmation for an assemblage (e.g., medical), they shall generate the required Shipment Advice 856S shipment status transaction at the Assemblage Identification Number (AIN) level. For all material release confirmations, the retail supply activity shall insert the original distribution code assigned to the material release order/disposal release order/redistribution order, in lieu of the special distribution code used to denote the Retail Transportation and Supply Interchange, when generating the shipment status transactions.

**Enclosure 2, DoD 4000.25-1-M, Volume 2**

Addendum to ADC 316A revisions are identified in *bold italics*:

**C19. CHAPTER 19**  
**UNIQUE ITEM TRACKING**

**C19.17. MATERIAL REDISTRIBUTION AND RELEASE.**

***C19.17.1*** The shipping activity shall release the appropriate number and condition code of UII(s) items without regard to the UII(s) selected. Also applies to DRO. There is currently no documented requirement for an owner to direct release of a specific UII(s).

***C19.17.2 DLMS Retail Transportation and Supply Receipt And Acknowledgement Interchange.*** (See DoD 4000.25-M, Volume 3, Chapter 2) For designated supply trading partners (currently limited to the Standard Base Supply System (SBSS) - Cargo Movement Operations System (CMOS) interface, the Materiel Release 940R will be used to support the unique item tracking (UIT) program for Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM). Unique item identifiers (UIIs) and the associated serial number will be passed in the 940R for each item meeting the PIC NWRM program criteria. For legacy items where the UII has not been marked in accordance with Item Unique Identification (IUID) policy, the serial number alone will be passed. This is an interim measure pending transition to tracking by UII and associated IUID business rules/transactions.

**C19.18. CANCELLED MRO/DRO SUPPORTING UII MATERIAL RELEASE.**

***C19.18.1.*** The storage activity shall confirm MRO or DRO cancellation to the owner, including UII(s). The storage activity shall confirm MRO or DRO cancellations in accordance with DS 945A (material release cancellation advice or disposal release cancellation advice) in accordance with Chapter 4.

***C19.18.2.*** The owner shall confirm MRO cancellation with Status Code BQ using DS 870S, via DAAS to eligible status recipients. Data are entered in the eligible status recipient's AIS.

**C19.19. MATERIAL RELEASE CONFIRMATION (MRC).**

***C19.19.1*** For all UIT programs, ***with the exception noted below for the retail transportation and supply receipt and acknowledgement interchange***, the shipping activity shall confirm material release to the owner and report UII(s) shipped. The storage activity shall submit MRC, including UII(s), using DS 945A, processed in accordance with Chapter 4.

***C19.19.2 DLMS Retail Transportation and Supply Receipt And Acknowledgement Interchange.*** (See DoD 4000.25-M, Volume 3, Chapter 2). ***Transportation activities do not currently have a requirement to perform unique item tracking. As a result, the Materiel Release Advice (945A) does not currently authorize inclusion of UII (or serial number).***

(text not shown)

Table C19.T1. DLMS Transactions with UIT Capability

DS #	TITLE	Process IAW (DLMS Volume, Chapter)
140A <sup>1</sup>	Small Arms Reporting	Vol 2, Chapter 18
140B	RESERVED. No documented business case/requirement (Unique Item Tracking Report)	
180M	Material Returns Reporting	Vol 2, Chapter 11
511M	Requisition Modification	Vol 2, Chapter 4
511R	Requisition	Vol 2, Chapter 4
527D	Due-in/Advance Receipt/Due Verification	Vol 2, Chapter 12
527R	Receipt, Inquiry, Response and MRA	Vol 2, Chapter 13
810L	Logistics Bill	Vol 5, Chapter 2
842A/W	SDR Follow-up, Correction, Cancellation, & Reconsideration Request	Vol 2, Chapter 17
842S/Q	Storage Quality Control Report	Vol 2, Chapter 21
842S/R	Storage Quality Control Report Reply	Vol 2, Chapter 21
846A	Asset Reclassification	Vol 2, Chapter 7
846F	Ammunition Freeze/Unfreeze	Vol 2, Chapter 14
846I	Asset Status Inquiry/Report	Vol 2, Chapter 5
856	Advance Shipment Notice	Vol 2, Chapter 19
856R	Shipment Status Material Returns	Vol 2 Chapter 11
856S	Shipment Status	Vol 2, Chapter 5
861	Acceptance Report	Vol 2, Chapter 19 (WAWF)
867I	Issue	Vol 2, Chapter 14

<sup>1</sup> DS 140A is specific to use for Small Arms tracking under the DoDSASP.

870M	Material Returns Supply Status	Vol 2, Chapter 11
888A <sup>2</sup>	Small Arms Data Change	Vol 2, Chapter 18
888B	RESERVED. No documented business case/requirement (Unique Item Data Change)	
940R	Material Release	Vol 2, Chapter 4
<b>940R</b>	<b>Matériel Release for retail transportation and supply receipt and acknowledgement interchange</b>	<b>Vol 3, Chapter 3</b>
945A	Material Release Advice	Vol 2, Chapter 4
947I	Inventory Adjustment	Vol 2, Chapter 7

(text not shown)

Table C19.T2. UIT Designator Codes

UITDC	EXPLANATION
AAA	DoD Small Arms Serialization Program (DODSASP)
AAB	Security Risk Category I Non-Nuclear missiles and Rockets
AAC	Radiation Testing and Tracking System (RATTS) Program
AAD	Navy Depot Level Repairables (NDLR) Program
AAE	Army Maintenance Management System (TAMMS) Equipment Data Base (TEDB)
AAF	Aviation Component Tracking Program
AAG	Tritium Unique Item Tracking Program
AAH	Controlled Cryptographic Items (CCI)
<b>AAJ</b>	<b>Positive Inventory Control (PIC) Nuclear Weapon Related Materiel (NWRM).</b> <sup>3</sup>
UID	Assets which meet DoD IUID criteria for marking, but which are not subject to DoD UIT program/tracking requirements. <sup>4</sup>

<sup>2</sup> DS 888A is specific to use for Small Arms tracking under the DoDSASP.

<sup>3</sup> **ADC 316A documenting PIC NWRM requirements.**

<sup>4</sup> See <http://www.acq.osd.mil/dpap/pdi/uid/index.html> for UID policy and criteria for assigning IUID to material.



### Enclosure 3, Comment Resolution

Item #	Received From	Comments	Resolution
1.	OSD-SCI	Is this temporary until you migrate to ECSS? What will you do for implementing serial number and UII in the future?	AF will add serial number and UII to the 856S during implementation of ECSS.
2.	Air Force	Use of FLIS data elements in 940R will be limited to SBSS/ILS-S only.	DLMSO concurs in this temporary, limited use.
3.	USTC	Serial number/UII not needed for use in transportation systems.	None required.
4.	Air Force/SBSS	The aggregation of shipment and catalog information together in a single transaction poses no security risks per AFMC and AF.	None required.
5.	Air Force/SBSS	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). See Items 2 and 3 in the DLMS Mapping Table, this document	Concur.