



DEFENSE LOGISTICS AGENCY
HEADQUARTERS
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June 28, 2018

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC) MEMBERS

SUBJECT: Approved Defense Logistics Management Standards (DLMS) Change (ADC) 1307,
Update Requisition-Related DLMS Transactions to Include GS1 Barcode
Information for the Navy Exchange Service Command (NEXCOM) (Supply)

The attached change to DLM 4000.25, Defense Logistics Management Standards (DLMS), is approved. This change will be effective **30** days from the above approval date and will authorize staggered implementation. The Enterprise Business Standards Office will post the updated DLMS Implementation Convention (IC) to the Web at http://www.dla.mil/HQ/InformationOperations/DLMS/elibrary/Transformats/140_997/, within 10 days from the above date.

Addressees may direct questions to Mr. Eric Flanagan, DOD MILSTRIP Administrator, email: Eric.Flanagan@dlm.mil, or [DLMS Supply, DLMS_Supply@dlm.mil](mailto:DLMS_Supply@dlm.mil). Others must contact their designated Supply PRC representative available at <http://www.dla.mil/HQ/InformationOperations/DLMS/allpoc/>.

HEIDI M. DAVEREDE
Director
Enterprise Business Standards Office

Attachment
As stated

cc:
ODASD (SCI)

ADC 1307

Update Requisition-Related DLMS Transactions to Include GS1 Barcode Information for the Navy Exchange Service Command (NEXCOM)

1. ORIGINATING SERVICE/AGENCY AND POC INFORMATION:

a. **Technical POC:** Mr. Jacob Lowe, DLA J62 Enterprise Business Systems Portfolio, (614) 359-3019, Jacob.Lowe@dla.mil

b. **Functional POC:** Mr. Anthony John "AJ" Ruzicka, DLA Troop Support Clothing & Textiles (C&T), (215) 737-5822, anthony.ruzicka@dla.mil

2. FUNCTIONAL AREA LOGISTICS AND TRANSACTION CHANGES:

a. **Primary/Secondary Functional Area:** Supply

b. **Logistics and Transaction Changes (Check All That Apply):**

<input checked="" type="checkbox"/>	Category	<input checked="" type="checkbox"/>	Category	<input checked="" type="checkbox"/>	Category
	Billing		Physical Inventory		Contract Admin
	Discrepancies / Deficiencies		MILSTRAP		DoDAAD
	Serialization	X	MILSTRIP		MAPAD
	Small Arms/Light Weapons		MRA		LMARS
	pRFID		Disposition		DLM Publications
	GFP		DOD BRAC		

3. REFERENCE:

a. Approved DLMS Change (ADC) 473A, DLMS Revisions to Add the Associated Purchase Order (PO) Number (Supports DLA Interface with the Exchange, Navy Exchange Service Command (NEXCOM), and Marine Corps Exchange (MCX) Non-Appropriated Funds (NAF) Activities, and Non-DOD Customers) (MILSTRIP/Supply/Finance), dated November 21, 2012

b. Approved DLMS Change (ADC) 1306, Carrier Identification and In-Transit Visibility Enhancements for Federal Emergency Management Agency (FEMA) (Supply)

4. APPROVED REQUESTED CHANGE(S):

a. Brief Overview of Change:

(1) The Navy Exchange Service Command (NEXCOM) requested that the DLMS 511R Requisition include three Global Trade Item Number (GTIN) identifiers. These include GTIN-12, GTIN-13, and GTIN-14. These GTIN identifiers are encoded in barcodes that are included in the Global Standards One (GS1) standard. GTIN identifiers correspond with the former Universal Code Council (UCC) UCC-12 and UCC-14, and the European Article Number (EAN) EAN-13 identifiers.

b. Background:

(1) In 2013, NEXCOM collaborated with DLA Troop Support to improve business processes, particularly with regard to developing electronic data interchange (EDI) transactions. These discussions led to process improvements that enabled NEXCOM to exchange EDI with DLA and its business partners. NEXCOM provided business requirements to DLA and began testing in 2013. EDI transactions allow NEXCOM to conduct business with DLA Troop Support without the need to develop and maintain costly interfaces.

(2) DLA Troop Support Clothing & Textiles (C&T) vendors currently ship each item on its own requisition document number. This is a standard DOD procedure since the DLMS 856S Shipment Status conveys information related to each requisition. Conversely, a typical EDI 856 Advance Shipment Notice (ASN) contains hierarchical levels that include a shipment level, order level, pack level, and item level. The shipment level contains data related to shipping information, such as ship-from, ship-to, bill of lading, shipped date, etc. The order level contains data related to the buyer's purchase order, such as the purchase order number. The pack level contains data related to the shipping cartons, such as the Serial Shipping Container Code (SSCC). Finally, the item level contains data related to item identification such as Universal Product Codes (UPCs), stock keeping units (SKUs), quantity shipped, etc.

(3) NEXCOM's retail system generates purchase orders as documented in ADC 473A (Reference 3.a.). The document-number based DLMS 856S Shipment Status requires NEXCOM to receive multiple shipment statuses for a single purchase order. NEXCOM considered this operationally unfeasible and explained this situation to EBSO and DLA Troop Support. EBSO determined that modifying the DLMS 856S was impractical and recommended the Defense Transportation Electronic Business (DTEB) 856A Shipment-Consolidation Notice transaction as an alternative. DLA Troop Support, EBSO, and United States Transportation Command (USTRANSCOM) agreed that DLA Troop Support C&T Third Party Logistics (3PL)s should send the DTEB 856A to NEXCOM.

(4) While supporting the Federal Emergency Management Agency (FEMA), DLA and U. S. TRANSCOM (TC) J6 noted that FEMA and NEXCOM had similar requirements. Instead of adding additional data content to the information-dense DTEB 856A, all parties agreed to implement a new ASN transaction. In April 2017, TCJ6 developed a new transaction called the DTEB 856F Advance Ship Notice – Federal and DOD. The DTEB 856F is a generic implementation convention that is available for DOD and Federal agencies that require

ASN functionality. ADC 1306 (Reference 3.b.) provides additional background related to the development of the DTEB 856F and contains the draft implementation convention.

(5) Under the approved process, the DLA Troop Support C&T 3PLs will send one DTEB 856F for each shipment. NEXCOM will continue to send DLMS 511R Requisitions to DLA. However, the 511R must include a GTIN for each item. As a result, this ADC modifies the 511R to include GTIN-12, GTIN-13, and GTIN-14 numbers. This change will also update the DLMS 511M Requisition Modification, DLMS 869F Requisition Follow-Up, and DLMS 940R Materiel Release Order to include GTIN numbers. DLA will include the GTIN in the DLMS 940R sent to the 3PLs. Next, the DLA Troop Support C&T 3PLs will provide the GTIN number in the DTEB 856F sent to NEXCOM. This will help NEXCOM receiving personnel to scan the barcode to ensure the shipping label matches the data in the ASN.

c. Approved Change in Detail:

(1) This change adds the following qualifiers to the DLMS 511R, DLMS 511M, DLMS 869F, and DLMS 940R as documented in the enclosure.

(a) EN – GTIN-13 (formerly EAN-13)

(b) UK – GTIN-14 (formerly UCC-14)

(c) UP – GTIN-12 (formerly UCC-12)

(2) NEXCOM will use the GTIN identifiers in the DLMS 511R to identify items requested in its internal purchase orders.

(3) DLA will include the GTIN identifiers in the DLMS 940R Materiel Release Order to allow its third-party logistics (3PL) vendors to provide this information on advance ship notices (ASNs) sent to NEXCOM.

(4) The 3PLs will place GS1-128 (formerly UCC-128) shipping labels on each carton they ship to NEXCOM.

(a) The GS1-128 shipping label will contain a SSCC encoded in a GS1-128 barcode.

(b) The 3PLs will send the ASN to NEXCOM as soon as a shipment occurs so that NEXCOM receives the information electronically prior to the physical delivery of the order.

(5) The GS1-128 shipping label will allow NEXCOM receiving personnel to scan the GS1-128 barcode on the carton.

(a) NEXCOM will systemically map the GS1-128 barcode information to the ASN to identify the purchase order information (to include the GTIN identifiers and item quantities).

(b) Scanning the barcodes prevents the need for receiving personnel to break down a carton or pallet and identify its components.

d. **Revisions to DLM 4000.25 Manuals:** This ADC does not revise the DLM 4000.25 manuals.

5. REASON FOR CHANGE: DLA vendors currently ship each item on its own requisition document number. Receiving each separate document number is operationally unfeasible since NEXCOM's retail system processes purchase orders, which may reference multiple document numbers. One ASN per shipment will expedite NEXCOM's receiving process. GTIN numbers are required for automated receiving via the 856F since the national stock number is not in NEXCOM's receiving database.

a. **Approved Transaction Flow:**

(1) NEXCOM will send 511R requisitions to DLA Enterprise Business Systems (EBS). The requisitions will include GTIN numbers and the NEXCOM purchase order number.

(2) EBS will include the GTIN numbers in the 940R Materiel Release Order sent to the 3PLs.

(3) The DLA Troop Support C&T 3PLs will send DTEB 856Fs containing GTIN numbers and pack-level information to NEXCOM.

(4) The DLA Troop Support C&T 3PLs must continue to provide the DLMS 856S in addition to the DTEB 856F.

b. **Alternatives:** None identified.

6. ADVANTAGES AND DISADVANTAGES:

a. **Advantages:** An EDI exchange between DLA and NEXCOM with the changes included in this ADC has the following advantages for NEXCOM:

(1) Reduces expenses associated with paper documents

(2) Eliminates or reduces the risk of lost orders due to manual processing

(3) Eliminates the need for NEXCOM to develop and manage costly interfaces

(4) Reduces the man hours required to receive and process shipments at the distribution center

(5) Allows NEXCOM to process invoices through its information center versus manually

b. **Disadvantages:** None identified.

7. ESTIMATED TIME LINE/IMPLEMENTATION TARGET: August 2018.

8. ESTIMATED SAVINGS/COST AVOIDANCE ASSOCIATED WITH IMPLEMENTATION OF THIS CHANGE:

a. At the NEXCOM distribution center, the average manual receipt processing time is 19 hours. Automated receipt processing can speed up the process by at least five hours and conservatively reduce that time to 14 hours. The ability to scan labels eliminates the need for an associate to enter information manually. The barcode labels will allow NEXCOM receiving personnel to identify shipping errors more quickly, which can save at least one hour per shipment.

b. An ASN reduces inbound shipment processing time at NEXCOM distribution centers. For example, the distribution center can create loading dock appointments in a matter of minutes, instead of creating an appointment for each requisition. This would save an estimated \$96 in scheduling appointments per trailer. The distribution center receives at least three trailers per week. During peak season, deliveries can increase to four or five trailers per week. Without an ASN, the distribution center holds shipments until it can create appointments in the warehouse management system.

c. Finally, an ASN eliminates the need for NEXCOM personnel to apply location labels to shipping cartons. This can reduce the receiving time from 19 hours to approximately 4-5 hours.

9. IMPACT:

a. **New DLMS Data Elements:** As documented in the enclosure, this change adds the following new DLMS data elements. Please note that the qualifier names listed below indicate the current terminology. For example, a GTIN-12 is a U.P.C. Consumer Package Code (1-5-5-1) in X12 version 4010, and a UCC-12 in X12 version 4030.

(1) EN – GTIN-13: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items. This number is used predominantly outside of North America. The GTIN-13 is the only GTIN that can be used in European Article Number (EAN)-13 barcodes.

(2) UP – GTIN-12: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items. The GTIN-12 is the only GTIN that can be used in UPC-A barcodes.

b. **Changes to DLMS Data Elements:** Change the existing Logistics Data Resources Management System (LOGDRS) name for qualifier UK (U.P.C./EAN Shipping Container Code (1-2-5-5-1) to the following:

UK – GTIN-14: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items. GTIN-14 is used in ITF-14, GS1-128 (formerly UCC/EAN-128), GS1 DataBar®, and DataMatrix symbols as well as Electronic Product Codes (EPCs).

c. Automated Information Systems (AIS):

(1) EBS must perpetuate the GTIN numbers in the DLMS 511R, 511M, and 869F to the DLMS 940R that it transmits to the 3PLs.

(2) Affected DLA Troop Support C&T 3PLs must implement the DTEB 856F and include the NEXCOM data requirements.

d. Defense Automatic Addressing System (DAAS): DAAS must implement any required mapping updates.

e. Non-DLM 4000.25 Series Publications: DLA and USTRANSCOM may need to update their respective publications as appropriate.

10. PROPOSED DLMS CHANGE (PDC) 1307 RESPONSE/COMMENT RESOLUTION:

	Originator	Response/Comment	Disposition
1.	DLA	Concur without Comment	Noted.
2.	DAAS	Concur without Comment.	Noted.
3.	Air Force	No response received.	No impact to Air Force.
4.	Army	No response received.	No impact to Army.
5.	USMC	No response received.	No impact to Marine Corps.
6.	Navy	Concur without Comment	Noted.
7.	USTRANSCOM	Concur without Comment	Noted.

Enclosure : DLMS Implementation Convention Updates

#	Location	DLMS 511R Requisition	Reason
1.	DLMS Introductory Notes	<p><u>Add ADC 1307 to the DLMS Introductory Note:</u></p> <p>- ADC 1307, Update Requisition-Related DLMS Transactions to Include GSI Barcode Information for the Navy Exchange Service Command (NEXCOM)</p>	To identify changes made to the IC.
2.	2/PO114/030	<p><u>Mark Data Element PO114 as Used and add the following DLMS Note:</u></p> <p>DLMS Note: Use only one of codes EN, UK, or UP to identify items by Global Trade Item Number. Authorized for use by NEXCOM. Refer to ADC 1307.</p> <p><u>Add the following Qualifiers and DLMS Notes:</u></p> <p>EN European Article Number (EAN) (2-5-5-1) DLMS Note: 1. This is the Global Trade Item Number (GTIN)-13. 2. DLMS enhancement. See introductory note 3a.</p> <p>UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) DLMS Note: 1. This is the Global Trade Item Number (GTIN)-14 2. DLMS enhancement. See introductory note 3a.</p> <p>UP U.P.C. Consumer Package Code (1-5-5-1) DLMS Note: 1. This Global Trade Item Number (GTIN)-12. 2. DLMS enhancement. See introductory note 3a</p>	NEXCOM requirement.
3.	2/PO115/030	<u>Mark Data PO115 as Used</u>	NEXCOM requirement.

#	Location	DLMS 511M Requisition Modification	Reason
1.	DLMS Introductory Notes	<p><u>Add ADC 1307 to the DLMS Introductory Note:</u></p> <p>- ADC 1307, Update Requisition-Related DLMS Transactions to Include GSI Barcode Information for the Navy Exchange Service Command (NEXCOM)</p>	To identify changes made to the IC.
2.	2/PO114/030	<p><u>Mark Data Element PO114 as Used and add the following DLMS Note:</u></p>	NEXCOM requirement.

#	Location	DLMS 511M Requisition Modification	Reason
		<p>DLMS Note: Use only one of codes EN, UK, or UP to identify items by Global Trade Item Number. Authorized for use by NEXCOM. Refer to ADC 1307.</p> <p><u>Add the following Qualifiers and DLMS Notes:</u></p> <p>EN European Article Number (EAN) (2-5-5-1) DLMS Note: 1. This is the Global Trade Item Number (GTIN)-13. 2. DLMS enhancement. See introductory note 3a.</p> <p>UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) DLMS Note: 1. This is the Global Trade Item Number (GTIN)-14 2. DLMS enhancement. See introductory note 3a.</p> <p>UP U.P.C. Consumer Package Code (1-5-5-1) DLMS Note: 1. This Global Trade Item Number (GTIN)-12. 2. DLMS enhancement. See introductory note 3a.</p>	
3.	2/PO115/030	<u>Mark Data Element as Used</u>	NEXCOM requirement.

#	Location	DLMS 869F Requisition Follow-Up	Reason
1.	DLMS Introductory Notes	<p><u>Add ADC 1307 to the DLMS Introductory Note:</u></p> <p>- ADC 1307, Update Requisition-Related DLMS Transactions to Include GSI Barcode Information for the Navy Exchange Service Command (NEXCOM)</p>	To identify changes made to the IC.
2.	2/LIN02/050	<p><u>Add the following Data Element level DLMS Note 2 and renumber existing note to note 3:</u></p> <p>DLMS Note: 1. Use only one of code B8, LT or ZR to identify the UIT information. 2. Use only one of codes EN, UK, or UP to identify items by Global Trade Item Number. Authorized for use by NEXCOM. Refer to ADC 1307. 3. For DLMS use, only the following codes are authorized.</p> <p><u>Add the following Qualifiers and DLMS Notes:</u></p> <p>EN European Article Number (EAN) (2-5-5-1) DLMS Note:</p>	NEXCOM requirement.

#	Location	DLMS 869F Requisition Follow-Up	Reason
		<p><i>1. This is the Global Trade Item Number (GTIN)-13.</i> <i>2. DLMS enhancement. See introductory note 4a.</i></p> <p>UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) DLMS Note: <i>1. This is the Global Trade Item Number (GTIN)-14</i> <i>2. DLMS enhancement. See introductory note 4a.</i></p> <p>UP U.P.C. Consumer Package Code (1-5-5-1) DLMS Note: <i>1. This Global Trade Item Number (GTIN)-12.</i> <i>2. DLMS enhancement. See introductory note 4a.</i></p>	

#	Location	DLMS 940R Materiel Release Order	Reason
1.	DLMS Introductory Notes	<p><u>Add ADC 1307 to the DLMS Introductory Note:</u></p> <p><i>- ADC 1307, Update Requisition-Related DLMS Transactions to Include GSI Barcode Information for the Navy Exchange Service Command (NEXCOM)</i></p>	To identify changes made to the IC.
2.	2/W0106/0200	<p><u>Add the following Data Element level DLMS Note:</u></p> <p>DLMS Note: Use only one of codes EN, UK, or UP to identify items by Global Trade Item Number. Authorized for use by NEXCOM. Refer to ADC 1307.</p> <p><u>Add the following Qualifiers and DLMS Notes:</u></p> <p>EN EAN/UCC-13 DLMS Note: <i>1. This is the Global Trade Item Number (GTIN)-13.</i> <i>2. DLMS enhancement. See introductory note 4a.</i></p> <p>UK EAN/UCC-14 DLMS Note: <i>1. This is the Global Trade Item Number (GTIN)-14</i> <i>2. DLMS enhancement. See introductory note 4a.</i></p> <p>UP UCC-12 DLMS Note: <i>1. This is the Global Trade Item Number (GTIN)-12.</i> <i>2. DLMS enhancement. See introductory note 4a.</i></p>	To perpetuate the value from the 511R.