IN REPLY
REFER TO J627

April 26, 2011

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC) MEMBERS

SUBJECT: Approved Defense Logistics Management System (DLMS) Change (ADC) 417, Shipment Status for Local Delivery Manifested, Outbound MILS Shipments on Behalf of On-Base Customers, Re-Warehousing Actions between Distribution Depots, and non-MILS Shipments to Off-Base Customers, with Passive Radio Frequency Identification (RFID) (Supply/Transportation/AIT/SDR) (Staffed as PDC 424)

The attached change to DOD 4000.25-M, DLMS, is approved for implementation. The updated DLMS Supplement will be posted to the DLA Logistics Management Standards Web site http://www.dla.mil/j-6/dlmso/elibrary/TransFormats/formats.asp within **10** days from the above date for implementation planning.

Addressees may direct questions to the DLA Logistics Management Standards points of contacts, Ms. Heidi Daverede, 703-767-5111; DSN 427-5111, or e-mail: heidi.daverede@dla.mil; or Ms. Ellen Hilert, Chair, Supply Process Review Committee, 703-767-0676, DSN 427-0676, or e-mail: ellen.hilert@dla.mil. Others must contact their Component designated representative.

DONALD C. PIPP
Director
DLA Logistics Management Standards

Attachment

cc:
ODASD(SCI)

ATTACHMENT TO ADC 417
Shipment Status for Local Delivery Manifested, Outbound MILS Shipments on Behalf of On-Base Customers, Re-Warehousing Actions between Distribution Depots, and non-MILS Shipments to Off-Base Customers, with Passive RFID

1. ORIGINATOR:

    a. Service/Agency: DLA Distribution

    b. Originator: DLA Distribution J4

2. FUNCTIONAL AREA:

    a. Primary: Supply

    b. Secondary: Transportation/AIT/SDR

3. REFERENCES:

    a. DOD 4000.25-M, Defense Logistics Management System (DLMS), Volume 3, Chapter 3, Passive Radio Frequency Identification (pRFID) Transactions

    b. DOD 4000.25-M, Defense Logistics Management System (DLMS), Volume 2, Chapter 5, Status Reporting

    c. DOD Automatic Identification Technology (AIT) Implementation Plan For Supply and Distribution Operations, Spiral I, dated March 2008

    d. DOD Automatic Identification Technology (AIT) Implementation Plan For Supply and Distribution Operations, Spiral II, dated October 21, 2009

4. BACKGROUND:

    a. Intent of the revision: To establish procedures for use of the DS 856S, Shipment Status, to document the application of pRFID tagging for shipments that are either local delivery manifesting to base customers, outbound MILS shipments on behalf of on-base customers, re-warehousing actions/transshipments between Distribution Depots in support of 'Home' Industrial Activity site and 'Forward Support' Industrial Activity site material requirements, or outbound non-MILS shipments (e.g., DD1149) to off-base customers. Implementing pRFID tagging on these shipments will provide enhanced intransit visibility and enable use of pRFID tag reads to trigger the automated receiving business processes/transactions at the customer location. Based on the staffing of the PDC, any significant changes to this document are highlighted in YELLOW.

    b. Scenario for which transaction is used: To implement pRFID tagging for these four scenarios, a DS 856S, Shipment Status, message is required to associate any pRFID tag(s)

applied by the transportation activity to the document number of the item(s) being trans-shipped/cross-docked. <mark>Note that this change to the use of the DS 856S should not be interpreted to mean that it can be used in lieu of the Defense Transportation Electronic Business (DTEB) Committee 856A transactions; normal DTEB business rules for the 856A shall be followed.</mark>

1) **<u>Local Delivery Manifesting</u>:** Examples of this scenario include Direct Vendor Delivery (DVD), Military Service/Agency, and non-DOD (e.g., GSA) shipments for local delivery to a base customer or delivery to a Material Processing Center (MPC). These shipments may already have had a shipment status message sent to the customer by either the Inventory Control Point (ICP) or the origin distribution activity. So, any subsequent DS 856S sent by the receiving transportation officer will need to be coded such that subsequent DS 856S generated for that document number carrying the pRFID tag information and updated shipment status are appended to the original shipment status, not overlaid.

2) **<u>Outbound MILS Shipments on Behalf of On-Base Customers</u>:** Examples of this scenario occur when a supply activity processing a MILSTRIP requirement uses a base transportation office, with which they lack a direct interface, to deliver the material to the customer. If the supply and transportation activity lack a direct interface under the procedures stipulated by DOD 4000.25-M, Volume 3, Chapter 2, Retail Transportation and Supply Interchange, the supply activity generating the shipment status message may not have all the transportation data for dissemination to the customer. Additionally, if the transportation activity applies pRFID tags to the shipment, that information will not be available in the initial shipment status message. So, any subsequent DS 856S sent by the origin transportation officer will need to be coded such that subsequent DS 856S generated for that document number carrying the pRFID tag information and updated shipment status are appended to the original shipment status, not overlaid. If the outbound shipment in this scenario is in response to the material returns program (MRP), retrograde, or directed discrepant/deficient materiel returns[1], a DS 856R Materiel Returns Shipment Status message shall be used in lieu of the DS 856S.

3) **<u>Re-warehousing Actions/Transshipments between Distribution Depots in support of 'Home' Industrial Activity site and 'Forward Support' Industrial Activity site material requirements</u>[2]:** Under this scenario, material that is physically located at the co-located DSS depot of the Industrial Activity 'home site' managing the maintenance action is required to support an off-station 'forward site' physically performing the maintenance. In support of this requirement, when directed by the material owner, DSS will re-warehouse the material from the 'home site' co-located DSS depot to the 'forward site' co-located DSS depot using their transshipment process and subsequently report the put away/stow completion back to the 'home site' depot. To enable application of a pRFID tag by the supplying depot and facilitate receipt take-up at the forward site support depot using the pRFID tag, a DS 856S Shipment

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[1] Approved DLMS Change 353A, Revised Procedures for Pre-positioned Materiel Receipt (PMR) and Shipment Status for Retrograde and Directed Discrepant/Deficient Materiel Returns Including Corrected Time Standard for Security Assistance/Foreign Military Sales (SA/FMS), dated August 25, 2010.

[2] Proposed DLMS Change 384, Warehouse Service Request (for Materiel Protection/Re-Warehousing, Staging, and Picklist/Callout), New DS 943A, Warehouse Service Advice, and Associated Procedures under Navy BRAC SS&D/IMSP, dated April 20, 2010.

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Status message is required to associate the pRFID tag to the document number of the re-warehousing order.

    4) **Outbound Non-MILS Shipments:** A typical example of this scenario is a base customer documenting a shipment request on a DD1149, Requisition and Invoice/Shipping Document, and requesting the base transportation officer ship the material on their behalf. Since these are not requisitions/orders processed under normal MILSTRIP procedures, there is no provision for a supply shipment status message. So, a DS 856S is required to associate the pRFID tag number to the document number on the DD1149. The DS 856S in this scenario may not include all the traditional supply shipment status data elements; see Table 1 in paragraph 5 below for listing of required data elements to support this scenario.

    c. **Procedures, transactions, data elements, processing details in use today:**

    1) **DAAS "L" Table**. All pRFID readers are required to be registered in DAAS. This is accomplished through use of the standard XML Reader Registration transaction, in which a unique Location Control Number (LCN) is assigned to the reader and its information is stored in the DAAS "L" table.

    2) **DAAS "R" Table**. When a shipment of DOD stocked material has pRFID tags applied to it, the association of the pRFID tag to a particular document number is identified in the DS 856S. For MRP, retrograde and directed returns with pRFID, the association of the pRFID tag to a particular document number is identified in the DS 856R. In addition to these transactions being routed under normal MILSTRIP business rules, a copy is stored in the DAAS "R" table as extended shipment data.

    3) **DAAS "V" Table**. When the pRFID tag is subsequently read by a registered reader, the standard XML visibility transaction is transmitted to DAAS to identify the LCN and the pRFID tag number that were read; this data is subsequently stored in the "V" table.

    4) The fusion of the data in the "L", "R", and "V" tables enables enterprise visibility systems (e.g., Asset Visibility and WebVLIPS) to provide intransit visibility in response to queries by associating the pRFID tag read to an LCN and a particular document number and/or transportation control number.

    5) Customer supply receiving business processes can be triggered by the pRFID tag read, by fusing the pRFID tag number with the matching 856S or 856R.

    6) This process works well for stocked shipments, as well as those moving through a DLA Containerization and Consolidation Point (CCP). However, the process delineated above has a gap when transportation offices are trans-shipping/cross-docking shipments for local delivery manifesting to on-base customers, outbound MILS shipments on behalf of on-base customers, re-warehousing actions between distribution depots, and outbound non-MILS shipments to off-base customers. For local delivery manifested shipments and outbound MILS shipments on behalf of on-base customers, the ICP may already have sent a shipment status message; however, the pRFID tag information and updated transportation data

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may be absent from the message. For re-warehousing actions and outbound non-MILS shipments, normally there is no supply shipment status message; therefore, the pRFID tag and transportation data are not transmitted to the receiving activity to facilitate use of pRFID tagging to trigger the receipt take-up process.

5. APPROVED CHANGE:

    a. Description of Change in Detail:

       1) For local delivery manifested shipments, deliveries to the MPC, and outbound MILS shipments for On-Base Customers, the DS 856S will need to use the transaction status reason code (BSN07 = "091" Trans-ship/Cross-dock Shipment Status (non-CCP)) to denote that the shipment status is being provided by a location performing trans-shipping/cross-docking subsequent to the original shipment. The RIC From will be the RIC of the activity executing the local delivery manifest. The remaining data elements for a shipment status message will be ascertained from the pack list/shipping documentation accompanying the shipment. If the shipment already has a pRFID tag on it, no additional DS 856S is required; the existing pRFID tag will just need to be read and an XML Visibility transaction sent to DAAS recording the tag read event. If there is no document number either on the inbound data or on the pack list/shipping documentation, then do not generate the DS 856S for conveying the pRFID tag. This is to preclude a mismatch of data with the original DS 856S transmitted by the ICP, which will have a document number. DLA Transaction Services shall route the shipment status to the ship-to activity; standard DAAS business rules for distribution of the shipment status to status recipients shall not apply.

       2) **Industrial Activity (IA) Support**. For re-warehousing actions/ transshipments between Distribution Depots in support of 'Home' Industrial Activity site and 'Forward Support' Industrial Activity site material requirements, a normal DS 856S (DIC AS8) should be generated and transmitted to DAAS (LQ02=AS8). **NOTE: No status reason code is required for this scenario.** This transaction should carry the normal shipment status message data, along with the pRFID tag identification numbers and any extended transportation data (e.g., bill of lading number, commercial carrier tracking numbers). Since there will never be a Material Receipt Acknowledgement (MRA) for these re-warehousing actions/transshipments between the Home and Forward Industrial Activities, a status reason code (BSN07=048 Industrial Activity Re-Warehousing/Trans-ship Shipment Status) shall be included so that DLA Transaction Services can flag these DS 856S instances and prevent them from triggering the MRA Report.

       3) For outbound non-MILS shipments documented on a DD1149, a DS 856S will be created. Table 1 lists the minimum data elements that should be included in the shipment status message; sources of the data are the DD1149 and pRFID tag information.

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Table 1 (Non-MILS Shipment Status Message)

Item #	Data Element	X12 Reference	Value
1.	Transaction Set Purpose Code	BSN01	"00"
2.	Shipment Identification	BSN02	"ZZ"
3.	Transaction Date	BSN03	[CCYYMMDD]
4.	Transaction Time	BSN04	[HHMM]
5.	Transaction Type Code	BSN06	"AS"
6.	Status Reason Code	BSN07	"014"
7.	Hierarchical Level (Transaction Originator)	HL01	"1"
		HL03	"V"
8.	Routing Identifier Code (From)	N101	"CS"
		N103	"M4"
		N104	[RIC of Activity Generating Status]
		N106	"FR"
9.	Hierarchical Level (Shipment Status Information)	HL01	"2"
		HL03	"W"
10.	Materiel Identification	LIN02	"FS" (for single line item NSN)
			"MG" (for single line item part number)
			"ZZ" (for multi-line items)
		LIN03	[NSN] (if LIN02 = "FS")
			[Part Number] (if LIN02 = "MG")
			"MIXED" (if LIN02 = "ZZ")
11.	Unit of Issue	SN103	[Unit of Issue] (for single line items)
			"MX" (for multi-line items)
12.	Quantity	SN102	[Quantity] (for single line items)
			"1" (for multi-line items)
13.	Document Number	REF01	"TN"
		REF02	[Document Number from DD1149]
14.	Consignor	N101	"CN"
		N103	"10"
		N104	[DODAAC]
15.	Ship To	N101	"ST"
		N103	"10"
		N104	[DODAAC]
		N106	"TO"
16.	Release Date	DTM01	"011"
		DTM02	[CCYYMMDD]
17.	Transportation Control Number	REF01	"TG"
		REF02	[TCN]

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Item #	Data Element	X12 Reference	Value
18.	Mode of Shipment	TD504	[X12 Code from DLMS Conversion Guide]
19.	Hierarchical Level (Passive RFID Information)	HL01	"3"
		HL02	[Parent Loop Number] (if multiple levels of pRFID used between interior and exterior packaging)
		HL03	"P"
20.	pRFID Tag Number	REF01	"JH"
		REF02	[Tag Number]

      b. Additional Change: See attachment 1 for changes to the DS 856S and 856R to support the data requirements for this interchange.

6. REASON FOR CHANGE:

    a. The DOD AIT Implementation Plans Spiral 1 and 2 direct the implementation of pRFID by DOD shippers. These plans require pRFID tagging to be enabled on Layer 1 (package), Layer 2 (Transport Unit), and Layer 3 (Unit Load). Spiral 1 introduced pRFID into the DOD wholesale and retail operations at DLA Distribution depots, service installations, and USTRANSCOM aerial ports. Spiral II builds on the foundation established in Spiral I to enable efficiencies in supply activities. The DOD vision is to enable a consistent, coordinated use of AIT media throughout DOD's supply and distribution processes, to achieve seamless AIT and asset visibility.

    b. This change will also facilitate the implementation of Item Unique Identification, by providing visibility to enterprise systems, such as IGC and AV. By associating the IUID to the document number and transportation control number in the DS 856S, IGC and AV will be able to fuse the supply transactions associated with that IUID to the transportation transactions, without requiring all transportation systems to carry and validate IUID information while the material is in-transit.

7. ADVANTAGES AND DISADVANTAGES:

    a. Advantages: Supports implementation of pRFID guidance stipulated by the DOD AIT Implementation Plan and expands the availability of tagging information to local delivery manifested shipments and non-MILS (DD1149) shipments.

    b. Disadvantages: This will require retail transportation systems (e.g., Cargo Movement Operations System) to implement the DS 856S for these types of situations. For the outbound non-MILS shipments, there is a potential for redundancy in shipment status reporting with the Wide Area Workflow 856 Property Transfer Notice.

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8. NOTE ANY REGULATIONS OR GUIDANCE: See Attachment 2 for changes to the DLMS Manual supporting these new shipment status reporting requirements.

9. ESTIMATED IMPLEMENTATION DATE: DLA target is May 2012.

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

    a. Cost Savings Estimate: The DLA Distribution projection is $2.36 million annually. This estimate is based on the DLA Distribution pRFID Enabled Receipt findings of a 5.5% (0.42 hours) reduction in receipt time. Extrapolating this result in conjunction with an average cost of $26.44 per hour for warehouse personnel, the cost savings per receipt is up to $11.10. The DLA Distribution generates an average of 850,000 Transshipments per year, of which a potential of 25% of these may be pRFID-enabled. Thus, the cost savings estimate is $2.36 million per year.

    b. Intangible Cost Avoidances: Enhanced visibility to the DOD supply chain.

11. IMPACT:

    a. DLMS Data Elements: There are no new functional DLMS data elements or changes to existing DLMS data elements resulting from this proposed change. There are three new codes authorized for use in the 856S and 856R BSN07 segment:

        1) 091 – Trans-ship/Cross-dock Shipment Status (non-CCP)
        2) 048 – Industrial Activity Re-Warehousing/Trans-ship Shipment Status
        3) 014 – Non-MILS Shipment Status (e.g., DD1149)

    b. DLA Transaction Services:

        1) Verify that WEBVLIPS, the "R" table, "L" table, and "V" table will function appropriately with the introduction of these additional DS 856S messages.

        2) Ensure that the data required to build the XML Visibility Response messages can be compiled in these four new pRFID tagging scenarios.

        3) Verify that the MRA Report will not react to the DS 856S messages for outbound non-MILS shipment transactions. There will never be an MRA reported for these shipments.

        4) Verify that the MRA Report will not react to the DS 856S messages for re-warehousing actions between distribution depots in support of IMSP Industrial Activities. There will never be an MRA reported for the re-warehousing actions in support of BRAC IMSP.

        5) Verify that the shipment status report is routed to the ship-to activity for local delivery manifested shipments, deliveries to the MPC, outbound MILS shipments for On-Base

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d. IGC: This is a new business process that will generate additional DS 856S, for which there may already be previously transmitted shipment status messages in support of local delivery manifested and outbound MILS shipments supporting on-base customers. For DS 856S in response to non-MILS shipments, there will likely be no document number information, since these shipment requirements are processed outside the normal MILSTRIP procedures.

Enclosure 1 to ADC 417

Item #	Location	Revision to 4030 DS 856S Shipment Status	Reason
1.	DLMS Introductory Note	Add ADC 417 to Introductory note for PDCs/ADCs: - *ADC 417, Shipment Status for Local Delivery Manifested, Outbound MILS Shipments on Behalf of On-Base Customers, Re-Warehousing Actions between Distribution Depots, and non-MILS Shipments to Off-Base Customers, with Passive RFID*	To identify DLMS changes included in the DS
2.	1/BSN06/0200	Modify existing DLMS note to existing code AS: AS Shipment Advice **DLMS Note:** 1. Use to indicate this transaction provides shipment status information related to requisitions. 2. Also applies to Army Total Package Fielding. 3. Use with BSN07=WTP to identify CAV Shipment Status. *4. Use with BSN07=014 for outbound non-MILS shipments (e.g., a DD1149). Refer to ADC 417*	To identify outbound intra-Army non-MILS shipment via DD 1149
3.	1/BSN07/0200	Modify existing DLMS note to existing code 061: 061 Consolidation, Extension, Modification (CEM) Use to identify that shipment status is provided by the Consolidation and Containerization Point (CCP) ~~or other location performing consolidation~~ subsequent to original shipment~~, e.g., local delivery manifesting,~~ in support of passive RFID data exchange. The CCP Shipment Status may reflect multiple levels of pack associated with the lead Transportation Control Number (TCN). It may update the shipment date or mode of shipment while providing visibility of additional or replacement passive RFID tag values associated with the original shipment as a result of CCP processing/ reconfiguration. The CCP Shipment Status should not be used to overlay the original shipment status in the receiving application, as this may result in some loss of data content.	To limit use of this qualifier to CCP use only.

Item #	Location	Revision to 4030 DS 856S Shipment Status	Reason
4.	1/BSN07/0200	Add new qualifiers and DLMS notes: *091 Reprocessed* *Trans-ship/Cross-dock Shipment Status (non-CCP). Use to identify that shipment status is provided by a location performing consolidation subsequent to original shipment (e.g., local delivery manifesting, deliveries to MPC) in support of passive RFID data exchange. The status may reflect multiple levels of pack associated with the lead Transportation Control Number (TCN). It may update the shipment date or mode of shipment while providing visibility of additional or replacement passive RFID tag values associated with the original shipment as a result of processing/ reconfiguration. The Shipment Status should not be used to overlay the original shipment status in the receiving application, as this may result in some loss of data content. Refer to ADC 417.* *014 Military Service* *Use to identify that the shipment status is provided in response to a non-MILS shipment (e.g., DD1149) in support of passive RFID data exchange. The status may reflect multiple levels of pack associated with the shipment unit Transportation Control Number (TCN) and may provide the secondary transportation data (e.g., bill of lading, tracking number, carrier identification). Refer to ADC 417.* *048 Location Changed* *Industrial Activity Re-Warehousing/Trans-ship Shipment Status. Use to identify that the shipment status is provided in response to re-warehousing/transshipments between Home and Forward Industrial Activities in support of IMSP. Since no Material Receipt Acknowledgement (MRA) is required for these types of shipments, the shipment status will not trigger the MRA Reports.*	To identify unique reason codes for processing 856S in support of local delivery manifesting and non-MILS DD1149 shipments. ~~No separate reason code is required for the Industrial Activity Re-warehousing support shipments.~~

Item #	Location	Revision to 4030 DS 856S Shipment Status	Reason
5.	2/SN102/0300	Modify Existing DLMS note: **Number of Units Shipped** **DLMS Note:** 1. For shipment status and lateral redistribution shipment status, use to identify the shipped quantity. 2. For pseudo shipment status (BSN06 code NC), use to identify the Material Release Order (MRO) quantity. 3. A field size exceeding 5 positions may not be received or understood by the recipient's automated processing system. See introductory DLMS note 2d. 4. For CAV shipment status (BSN06=WTP), use to indicate quantity shipped or quantity reversed. Always enter a quantity of one (1). A separate CAV shipment status is prepared for each individual item shipped. To reverse, enter a quantity of minus one (-1). *5. For non-MILS shipment (e.g., DD1149) status (BSN07=014) in support of pRFID exchange, when 2/LIN02/0200=ZZ and 2/LIN03/0200=MIXED, enter a quantity of one (1) to indicate multi-line items. Refer to ADC 417.*	Identifies that multi-line items comprising mixed NSNs are being conveyed.
6.	2/SN103/0300	Modify existing DLMS note **Unit or Basis for Measurement Code** **DLMS Notes:** 1.DLMS users see the Unit of Issue Conversion Table for available codes. *2. For non-MILS shipment (e.g., DD1149) status, (BSN07=014) in support of pRFID exchange, when 2/LIN02/0200=ZZ and 2/LIN03/0200=MIXED, enter a unit of issue of "MX". Refer to ADC 417.*	Identifies that multi-line items comprising mixed NSNs are being conveyed.

Item #	Location	Revision to 4030 DS 856S Shipment Status	Reason
7.	2/N101/2200	Modify existing DLMS note to existing code CS: CS Consolidator **DLMS Note:** *1*. Use to identify the consolidation point DoDAAC when shipment status is provided by the CCP ~~or other activity performing consolidation, e.g. local delivery manifesting~~ (BSN07=061). *2. For non-MILS shipment (e.g., DD1149) status, (BSN07=014) in support of pRFID exchange, use to identify the origin activity generating the shipment status. Refer to ADC 417.*	To identify the consolidator for non-MILS DD1149 shipments.

Enclosure 2 to ADC 417

Item #	Location	Revision to 4030 DS 856R Shipment Status Material Returns	Reason
1.	DLMS Introductory Note	Add ADC 417 to Introductory note for PDCs/ADCs: - *ADC 417, Shipment Status for Local Delivery Manifested, Outbound MILS Shipments on Behalf of On-Base Customers, Re-Warehousing Actions between Distribution Depots, and non-MILS Shipments to Off-Base Customers, with Passive RFID*	To identify DLMS changes included in the DS
2.	1/BSN07/0200	Add new qualifier and DLMS note: *091 Reprocessed* *Trans-ship/Cross-dock Shipment Status (non-CCP). Use to identify that shipment status is provided by a location performing consolidation subsequent to original shipment (e.g., local delivery manifesting) in support of passive RFID data exchange. The status may reflect multiple levels of pack associated with the lead Transportation Control Number (TCN). It may update the shipment date or mode of shipment while providing visibility of additional or replacement passive RFID tag values associated with the original shipment as a result of processing/ reconfiguration. The Shipment Status should not be used to overlay the original shipment status in the receiving application, as this may result in some loss of data content. Refer to ADC 417.* ~~*014 Military Service*~~ ~~*Use to identify that the shipment status is provided in response to a non-MILS shipment (e.g., DD1149) in support of passive RFID data exchange. The status may reflect multiple levels of pack associated with the shipment unit Transportation Control Number (TCN) and may provide the secondary transportation data (e.g., bill of lading, tracking number, carrier identification). Refer to ADC 417.*~~	To identify a unique reason code for processing 856R in support of outbound MILS shipments on behalf of on-base customers supporting the material returns program (MRP), retrograde, or directed discrepant/ deficient materiel returns, where there is no direct interface between the base supply and transportation systems.

Enclosure 3 – DLMS Manual Changes

1. Insert the following new paragraph in DoD 4000.25-M Volume 2, Chapter 5, Status Reporting at C5.2.3.3, and renumber subsequent paragraphs.

C5.2.3.3. <u>Shipment Status for Local Delivery Manifested, Outbound MILS Shipments on Behalf of On-Base Customers, Re-warehousing actions/transshipments between Distribution Depots in support of 'Home' Industrial Activity and 'Forward Support' Industrial Activity site material requirements, and non-MILS Shipments (e.g., DD1149) to Off-Base Customers, with Passive RFID.</u> For shipments prepared by the Transportation Office that are local delivery manifested, Materiel Processing Center (MPC) deliveries, outbound MILS shipments on behalf of on-base customers, re-warehousing actions between distribution depots, and outbound non-MILS shipments (e.g., DD1149) to off-base customers, the shipment status shall be prepared IAW paragraph C5.2.3.1 using DS 856S, Shipment Status, to include identifying the passive RFID information and associating the tag data to the document number of the item(s) to be trans-shipped or cross-docked.

C5.2.3.3.1. For local delivery manifested shipments, MPC deliveries, and outbound MILS shipments for On-Base Customers, the DS 856S will need to use the transaction status reason code (BSN07 = "091" Trans-ship/Cross-dock Shipment Status (non-CCP)) to denote that the shipment status is being provided by a location performing trans-shipping/cross-docking subsequent to the original shipment. The RIC From will be the RIC of the activity executing the local delivery manifest. The remaining data elements for a shipment status message will be ascertained from the pack list/shipping documentation accompanying the shipment. If the shipment already has a pRFID tag on it, no additional DS 856S is required; the existing pRFID tag will just need to be read and an XML Visibility transaction sent to DLA Transaction Services recording the tag read event. If there is no document number either on the inbound data or on the pack list/shipping documentation, then do not generate the DS 856S for conveying the pRFID tag. This is to preclude a mismatch of data with the original DS 856S transmitted by the ICP, which will have a document number.

C5.2.3.3.2. For re-warehousing actions/transshipments between Distribution Depots in support of 'Home' Industrial Activity site and 'Forward Support' Industrial Activity site material requirements, a normal DS 856S should be generated and transmitted to DAAS. This transaction should carry the normal shipment status message data, along with the pRFID tag identification numbers and any extended transportation data (e.g., bill of lading number, commercial carrier tracking numbers). Since there will never be a Material Receipt Acknowledgement (MRA) for these re-warehousing actions/transshipments between the Home and Forward Industrial Activities, a status reason code (BSN07="048" Industrial Activity Re-Warehousing/Trans-ship Shipment Status) shall be included so that DLA Transaction Services can flag these DS 856S instances and prevent them from triggering the MRA Report.

C5.2.3.3.3. For outbound non-MILS shipments documented on a DD1149, a DS 856S will be created. Table C5.T1 lists the minimum data elements that should be included in the shipment status message; sources of the data are the DD1149 and pRFID tag information.

Table C5.T1. Non-MILS Shipment Status Message

Item #	Data Element	X12 Reference	Value
1.	Transaction Set Purpose Code	BSN01	"00"
2.	Shipment Identification	BSN02	"ZZ"
3.	Transaction Date	BSN03	[CCYYMMDD]
4.	Transaction Time	BSN04	[HHMM]
5.	Transaction Type Code	BSN06	"AS"
6.	Status Reason Code	BSN07	"014"
7.	Hierarchical Level (Transaction Originator)	HL01	"1"
		HL03	"V"
8.	Routing Identifier Code (From)	N101	"CS"
		N103	"M4"
		N104	[RIC of Activity Generating Status]
		N106	"FR"
9.	Hierarchical Level (Shipment Status Information)	HL01	"2"
		HL03	"W"
10.	Materiel Identification	LIN02	"FS" (for single line item NSN)
			"MG" (for single line item part number)
			"ZZ" (for multi-line items)
		LIN03	[NSN] (if LIN02 = "FS")
			[Part Number] (if LIN02 = "MG")
			"MIXED" (if LIN02 = "ZZ")
11.	Unit of Issue	SN103	[Unit of Issue] (for single line items)
			"MX" (for multi-line items)
12.	Quantity	SN102	[Quantity] (for single line items)
			"1" (for multi-line items)
13.	Document Number	REF01	"TN"
		REF02	[Document Number from DD1149]
14.	Consignor	N101	"CN"
		N103	"10"
		N104	[DODAAC]
15.	Ship To	N101	"ST"
		N103	"10"
		N104	[DODAAC]
		N106	"TO"
16.	Release Date	DTM01	"011"
		DTM02	[CCYYMMDD]
17.	Transportation Control Number	REF01	"TG"
		REF02	[TCN]

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Item #	Data Element	X12 Reference	Value
18.	Mode of Shipment	TD504	[X12 Code from DLMS Conversion Guide]
19.	Hierarchical Level (Passive RFID Information)	HL01	"3"
		HL02	[Parent Loop Number] (if multiple levels of pRFID used between interior and exterior packaging)
		HL03	"P"
20.	pRFID Tag Number	REF01	"JH"
		REF02	[Tag Number]

C5.2.3.3.4. <u>DAAS Distribution of Shipment Status for Local Delivery Manifested, Deliveries to MPC, Outbound MILS Shipments on Behalf of On-Base Customers, and non-MILS Shipments (e.g., DD1149) to Off-Base Customers</u>. DAAS will route the shipment status to the ship-to activity. Standard DAAS business rules for distribution of the shipment status to status recipients will not apply.

C5.2.3.3.5. <u>DAAS Distribution of Shipment Status for Re-warehousing actions/transshipments between Distribution Depots in support of 'Home' Industrial Activity and 'Forward Support' Industrial Activity site material requirements</u>. DAAS will route the shipment status according to standard DAAS business rules for distribution of the shipment status to status recipients.

C5.2.3.3.6. <u>Receiving Activity Use of Shipment Status for Local Delivery Manifested, Deliveries to MPC, Outbound MILS Shipments on Behalf of On-Base Customers, Re-warehousing actions/transshipments between Distribution Depots in support of 'Home' Industrial Activity and 'Forward Support' Industrial Activity site material requirements, and non-MILS Shipments (e.g., DD1149) to Off-Base Customers</u>. The value of this transaction to the receiving activity is to support passive RFID-enabled receipt processing. DLMS applications not supporting passive RFID may disregard this status or choose to append the mode of shipment and the shipment date. New content on the shipment status should not be viewed as replacement values for a previously received shipment status matching on document number/suffix.

2. Insert the following new paragraph in DoD 4000.25-M Volume 3, Chapter 3, Passive Radio Frequency Identification (RFID) Transactions C3.11, and renumber subsequent paragraphs.

C3.11. <u>PASSIVE RFID AND SHIPMENT STATUS.</u>

      C3.11.1. <u>DAAS "L" Table</u>. All pRFID readers are required to be registered in DAAS. This is accomplished through use of the standard XML Reader Registration transaction, in which a unique Location Control Number is assigned to the reader and its information is stored in the DAAS "L" table.

      C3.11.2. <u>DAAS "R" Table</u>. When a shipment of DOD stocked material has pRFID tags applied to it, the association of the pRFID tag to a particular document number is identified in the DS 856S. For Materiel Returns Program, retrograde and directed returns with pRFID, the association of the pRFID tag to a particular document number is identified in the DS 856R. In addition to these transactions being routed under normal MILSTRIP business rules, a copy is stored in the DAAS "R" table as extended shipment data.

      C3.11.3. <u>DAAS "V" Table</u>. When the pRFID tag is subsequently read by a registered reader, the standard XML visibility transaction is transmitted to DAAS to identify the LCN and the pRFID tag number that were read; this data is subsequently stored in the "V" table.

      C3.11.4. The fusion of the data in the "L", "R", and "V" tables enables enterprise visibility systems (e.g., Asset Visibility and WebVLIPS) to provide intransit visibility in response to queries by associating the pRFID tag read to an LCN and a particular document number and/or transportation control number.

      C3.11.5. Customer supply receiving business processes can be triggered by the pRFID tag read, by fusing the pRFID tag number with the matching 856S or 856R.

      C3.11.6. This process works well for stocked shipments, as well as those moving through a DLA Containerization and Consolidation Point (CCP). However, the process delineated above has a gap when transportation offices are trans-shipping/cross-docking shipments for local delivery manifesting to on-base customers, deliveries to Materiel Processing Centers (MPC), outbound MILS shipments on behalf of on-base customers, re-warehousing actions between distribution depots, and outbound non-MILS shipments to off-base customers. For local delivery manifested shipments, deliveries to MPC, and outbound MILS shipments on behalf of on-base customers, the ICP may already have sent a shipment status message; however, the pRFID tag information and updated transportation data may be absent from the message. For re-warehousing actions and outbound non-MILS shipments, normally there is no supply shipment status message; therefore, the pRFID tag and transportation data are not transmitted to the receiving activity to facilitate use of pRFID tagging to trigger the receipt take-up process. For those requirements when transportation offices are trans-shipping/cross-docking shipments, other shipment status reporting procedures are followed. These scenarios include local delivery manifesting to on-base customers, deliveries to MPC, outbound MILS shipments on behalf of

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on-base customers, re-warehousing actions between distribution depots, and outbound non-MILS shipments to off-base customers.

C3.11.6.1. For local delivery manifested shipments, deliveries to MPC, and outbound MILS shipments for On-Base Customers, the DS 856S will need to use the transaction status reason code (BSN07 = "091" Trans-ship/Cross-dock Shipment Status (non-CCP)) to denote that the shipment status is being provided by a location performing trans-shipping/cross-docking subsequent to the original shipment. The RIC From will be the RIC of the activity executing the local delivery manifest. The remaining data elements for a shipment status message will be ascertained from the pack list/shipping documentation accompanying the shipment. If the shipment already has a pRFID tag on it, no additional DS 856S is required; the existing pRFID tag will just need to be read and an XML Visibility transaction sent to DAAS recording the tag read event. If there is no document number either on the inbound data or on the pack list/shipping documentation, then do not generate the DS 856S for conveying the pRFID tag. This is to preclude a mismatch of data with the original DS 856S transmitted by the ICP, which will have a document number.

C3.11.6.2. For re-warehousing actions/transshipments between Distribution Depots in support of 'Home' Industrial Activity site and 'Forward Support' Industrial Activity site material requirements, a normal DS 856S should be generated and transmitted to DAAS. This transaction should carry the normal shipment status message data, along with the pRFID tag identification numbers and any extended transportation data (e.g., bill of lading number, commercial carrier tracking numbers). Since there will never be a Material Receipt Acknowledgement (MRA) for these re-warehousing actions/transshipments between the Home and Forward Industrial Activities, a status reason code (BSN07="048" Industrial Activity Re-Warehousing/Trans-ship Shipment Status) shall be included so that DLA Transaction Services can flag these DS 856S instances and prevent them from triggering the MRA Report.

C3.11.6.3. For Outbound Non-MILS shipments documented on a DD1149, a DS 856S will be created. See the DLMS Manual, Volume 2, Chapter 5, Status Reporting, Table C.5.T.1. for the minimum data elements that should be included in the shipment status message; sources of the data are the DD1149 and pRFID tag information.

Enclosure 4, PDC 424 RESPONSE/COMMENTS:

Organization	Response/Comment	Disposition
DLA Transaction Services	No impact from SDR group. From logistics group, need to identify a means to identify the 856S from "Rewarehousing actions/transshipments between distribution depots in support of Home IA site and Forward IA site material requirements, so as to exclude from MRA Reporting.	Added BSN07=048 for this IMSP rewarehousing/ transship scenario.
USTRANSCOM	Concur.	
DFAS	No comment.	
DLA	Concur.	
Navy	Concur.	
Air Force	Concur with comment: Need to add statement that the 856S in these scenarios is not to be considered a replacement for the 856A transaction to retail transportation systems.	Inserted at paragraph 4.b. "Note that this change to the use of the DS 856S should not be interpreted to mean that it can be used in lieu of the Defense Transportation Electronic Business (DTEB) Committee 856A transactions; normal DTEB business rules for the 856A shall be followed."
Marine Corps	Concur.	
Army	Concur.	
DLA Logistics Management Standards	Add DLMS definitions for BSN07=091 and BSN07=48. Add statement for the BSN07=91 scenarios that routing of transactions shall be determined by the Ship To, which supersedes the current routing procedures at DLA Transaction Services.	Inserted at paragraphs 5.a.1), 5.a.2) and 11.a. Inserted at paragraph 5.a.1).

	Add requirement for DLA Transaction Services to use this shipment status content to prepopulate the shipment history for Supply Discrepancy Reports using DoD WebSDR.	Added new paragraph 11.c.