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IN REPLY
REFER TO DLA J-627

October 26, 2010

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC) MEMBERS

SUBJECT: Approved Defense Logistics Management System (DLMS) Change (ADC) 397,
Deletion of the Passive RFID Reader ID Number from the Reader Registration
Table (Supply/Transportation/AIT) (Staffed as PDC 418)

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 Office Web site <http://www.dla.mil/j-6/dlms/olibrary/TransFormats/formats.asp> within **10** days from the above date. There are no system changes required by this approved change. This is an update to three tables in the DLMS Manual and synchronizes the tables with the existing transactions already implemented.

Addressees may direct questions to the DLA Logistics Management Standards Office 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.

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

DONALD C. PIPP
Chief
DLA Logistics Management
Standards Office

Attachment

cc:
ODASD(SCI)

ATTACHMENT TO ADC 397
Deletion of the Passive RFID Reader ID Number from the Reader Registration
Tables (Table C3.T1)

1. ORIGINATOR:

- a. **Service/Agency:** DLA Logistics Management Standards Office
- b. **Originator:** Heidi Daverede, DLA Logistics Management Standards Office, (703) 767-5111

2. FUNCTIONAL AREA:

- a. **Primary:** Supply
- b. **Secondary:** Automatic Identification Technology (AIT)

3. REFERENCES:

- a. DoD 4000.25-M, Defense Logistics Management System (DLMS), Volume 3, Chapter 3, Passive Radio Frequency Identification (pRFID) Transactions
- b. DoD AIT Policy Website (URL): <http://www.transcom.mil/ait/>.

4. REQUESTED CHANGE: Yellow highlighting identifies additions and revisions made subsequent to staffing of the PDC (PDC 418) to add clarity to the changes.

a. **Intent of the revision:** During recent passive RFID (pRFID) testing by the IDE-GTN Convergence (IGC) program, test personnel identified a conflict in the test transaction data and the published DLMS guidance regarding pRFID data requirements for the standard XML pRFID schema. Subsequent research determined that the DLMS manual guidance was incorrect. This revision deletes the requirement for the Passive RFID Reader ID Number and updates the attributes for both the Location Control Number and the Reader Registration Action located in the Data Requirements Tables in DoD 4000.25-M, Volume 3, Chapter 3.

b. **Scenario for which transaction is used:** Passive tags should be applied at the case and pallet levels to all sustainment and retrograde shipments to support asset visibility within the DOD supply chain and improve logistics business processes. The DLMS Manual requires the registration of pRFID readers with DAAS, using the XML Reader Registration transaction. This proposed revision eliminates the requirement to include a Reader ID Number in the Reader Registration Transaction, as the information is functionally duplicative of information to identify the reader in another part of the transaction, in the RFID Location Control Number (LCN). This revision aligns the table in the manual with the previously implemented schema.

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

1) All pRFID readers are required to be registered at DLA Transaction Services. The registration is accomplished through use of the standard XML Reader Registration transaction, in which a unique Location Control Number (LCN) is assigned to the reader by DAAS and the reader information is stored in the DLA Transaction Services “L” or location table. The LCN is used in every subsequent transaction sent to DAAS from the reader, and provides the reader location information.

2) When the pRFID tag is subsequently read by a Registered Reader, the standard XML Visibility transaction is transmitted to DAAS by the user system with the Reader Location Control Number and the pRFID tag number that was read; this data is stored in the “V” table, is available through WEBVLIPS, and identifies the source reader by location.

3) The necessary data is captured about both the shipment and its location, by associating the pRFID tag read to an LCN and the particular reader. The shipment information can then be accessed through WEBVLIPS at DLA Transaction Services. No change in this access capability will result from deleting the Reader ID Number data.

5. PROPOSED CHANGES:

a. Description of Change in Detail: This change deletes the requirement for reporting the pRFID Reader ID Number in the XML Reader Registration transaction. The Reader ID Number will be deleted from Table C3.T1 in Chapter 3, shown in enclosure 1. **There are no system changes required from deleting the Reader ID Number entry from the table in the DLMS Manual, since the data element is not carried in the XML pRFID transactions.**

b. Administrative Changes: There are three administrative changes identified below as well, and are shown in detail in the tables at enclosure 1.

1) The current Minimum/Maximum length for the Reader Location Control Number (LCN) element is changed to 1/16 (from 16/16) in Tables C3.T1, C3.T2, and C3.T3.

2) The Minimum/Maximum for the Reader Registration Action element is changed to 1/2 (from 2/2) in Table C3.T1.

3) The words “Expressed in hexadecimal” for the pRFID Tag Number are deleted from the “Values” column of Tables C3.T2 and C3.T3.

6. REASON FOR CHANGES: These changes align the DLMS Manual DoD 4000.25-M, Volume 3, Chapter 3, and the Data Requirements Tables, with the actual implementations of these transactions by current trading partners. The Reader ID Number is not **carried** in the **existing** XML Reader Registration and Visibility transactions. The RFID Location Control Number (LCN) **already** provides the necessary unique reader identification information. Additionally, the Minimum/Maximum length for the RFID Location Control Number (LCN) and Reader Registration Action are changed to reflect the actual parameters for the full range of numbers that may be present in the field, such as a “0” or “1”. The reference to “expressed in hexadecimal” in the “Values” column of the tables is no longer required.

7. ADVANTAGES AND DISADVANTAGES:

a. Advantages: Updates the DLMS Manual documentation and related tables to reflect the actual implementation of the pRFID transactions and associated data. This change also supports implementation of pRFID data requirements stipulated by DOD AIT policy. The pRFID data requirements shown in the tables support shipment visibility across the DoD supply chain as passive tags are applied at the case and pallet levels.

b. Disadvantages: None. There are no software code changes required as a result of this action.

8. ESTIMATED TIME LINE/IMPLEMENTATION TARGET: These changes were previously implemented in the XML Reader Registration Schema, which is already in use by pRFID trading partners. The DLMS Manual update, to align the DLMS Manual tables with the current implementation, will be made upon approval of this DLMS change.

9. ESTIMATED SAVINGS/COST AVOIDANCE ASSOCIATED WITH IMPLEMENTATION OF THIS CHANGE: None. This is an administrative change to align DLMS manual tables with already implemented transactions.

10. IMPACT: No impact is expected in deleting the Reader ID Number, since it has not been carried in the XML schema since the original implementation of the pRFID XML schemas. The Location Control Number adequately assigns a unique identification number to each individual pRFID reader registered at DLA Transaction Services. The new minimum/maximum parameters identified now for the RFID Location Control Number and Reader Registration Action reflect the reality of the data currently transmitted to DLA Transaction Services in the XML schemas.

a. New DLMS Data Elements: None.

b. Changes to DLMS Data Elements:

- 1) Reader ID Number: Delete.
- 2) RFID Location Control Number: Change Minimum/Maximum length to 1/16.
- 3) Reader Registration Action: Change Minimum/Maximum length to 1/2.
- 4) Passive RFID Tag: Delete “Expressed in hexadecimal” from values column.

c. DLA Transaction Services: None.

d. IGC: None. NOTE: Since “Reader ID Number” was not implemented in the schema, no data was ever received for loading into the DAAS “L” table; therefore there will be no loss of data in the DAAS feed to the Enterprise Data Warehouse.

Enclosure 1, Reader Registration and Visibility Transaction Data Requirements Tables (From DOD 4000.25-M, Volume 3, Chapter 3, Passive Radio Frequency Identification (RFID) Transactions)

Table C3.T1. Passive RFID Reader Registration Data Requirements

Element	Description	Man/ Opt/ Con ¹	Mini- mum Lgth	Maxi- mum Lgth	Values
RFID Location Control Number (LCN)	DAAS-assigned upon initial registration	C	16 1	16	<u>From site to DAAS:</u> - Blank for initial registration request - LCN for update requests <u>From DAAS to site:</u> - LCN
Reader Registration Action	Describes purpose of registration action or DAAS response to the registration action	M	2 1	2	<u>From Site to DAAS:</u> E-establish reader U-update reader info D-delete reader <u>From DAAS to Site:</u> CE-establish reader confirmed CU-update reader confirmed CD-delete reader confirmed NE-establish reader not accepted NU-update reader not accepted ND-delete reader not accepted
Reader Type	Location's reader is fixed or mobile	M	1	1	F = Fixed M = Mobile
<i>Reader ID Number</i>	<i>Number assigned to this reader or group of readers by the site</i>	<i>M</i>	<i>10</i>	<i>10</i>	
Location	DoDAAC, CAGE, Water Port or Aerial Port code for this location	M	5	6	

¹ "Man" means "Mandatory;" "Opt" means "Optional;" and "Con" means "Conditional."

Element	Description	Man/ Opt/ Con ¹	Mini- mum Lgth	Maxi- mum Lgth	Values
Location Text	Further description of this location	O	1	50	Free form text; Possible entries would be Area xxx, Bldg. xxx, Post xxx, Door xxx
Type of Location	Code to identify type of location	M	1	1	D = DoDAAC V = Cage Code A = Aerial Port W = Water Port

Table C3.T2. Passive RFID Visibility Transaction Data Requirements

Element	Description	Man/ Opt/ Con	Mini- mum Lgth	Maxi- mum Lgth	Values
Passive RFID Tag	Tag ID Value	M	24	50	<i>Expressed in hexadecimal</i>
RFID Location Control No.	DAAS assigned during the registration process	M	16 1	16	
Reader Function Code	Describes process associated with this Reader	M	1	1	<u>From site to DAAS:</u> A – Arrived D – Departed O – Observed F – Follow-up X – Delivered U – Undelivered/ Attempted Delivery <u>From DAAS to site:</u> N – Not recorded
Tag Read Date/Time	Date/Time reported action took place	M	12	12	ZULU CCYYMMDDHHmm (example: 200612051459)

Table C3.T3. Passive RFID Visibility Response Transaction Data Requirements

Element	Description	Man/ Opt/ Con	Mini- mum Lgth	Maxi- mum Lgth	Values
RFID Location Control No.	DAAS assigned during the registration process	M	16 1	16	
Tag Read Date Time	Date/Time reported action took place	M	12	12	ZULU CCYYMMDDHHmm (example: 200612051459)
Reader Function Code	Describes process associated with this Reader	M	1	1	<u>From DAAS to Site;</u> F – Follow-up Information N – No Information Found If N, the conditional fields will not be populated.
Passive RFID Tag	Tag Identification Value	M	24	50	<i>Expressed in hexadecimal</i>
Shipment Notice Type	X12 Transaction Type Code	M	3	4	If F, enter “SHIP” If N, enter “NONE”
Document Number	Requisition Number	C	14	14	
Suffix	Requisition Number suffix	C	1	1	Populated only if Document No. has it.
Transportation Control Number	TCN from Shipment notice	C	17	17	
Shipment Date	Date/Time from Shipment Notice	C	12	12	ZULU CCYYMMDDHHmm (example: 200612051459)
NSN/Part Number	Stock Number/Part Number cited in Shipment notice	C	13	15	
Ship Quantity	Quantity Shipped cited in Shipment Notice	C	5	9	

Enclosure 2, Comment Resolution

Item #	Received From	Comments	Resolution/Remarks
1.	DLA	Concurs without comment. No EBS impact.	None required.
2.	Navy	Concurs with PDC 418 as written and submits no additional changes or amendments.	None required.
3.	Marine Corps	Concurs as written.	None required.
4.	USTRANSCOM	Concurs.	None required.
5.	WAWF (Contracting support)	No impact for WAWF or the Registry, to include the Hub.	None required.
6.	Air Force	Concurs without comments.	None required.
7.	DMLSS (JMFLDC)	Concurs.	None required.
8.	DLA Transaction Services	Concurs.	None required.
9.	Army	Concurs.	None required.