Defense Logistics Management System (DLMS)
Introductory Training
DLMS Training Catalog

Module 1 - Introduction to the DLMS
Module 2 - Electronic Data Interchange (EDI) Basics and ASC X12 EDI Definitions and Concepts
Module 3 - DLMS Functionality & Transaction Life-Cycle
Module 4 - DLMS Transaction Supplement Content
Module 4F - DLMS Functional Financial Transaction Life-Cycle
Module 5 - IUID & RFID - Emerging Technologies
Module 6 - Creating/Reengineering DOD Logistics Business Processes
Module 6A - DLMS Configuration Management (stand alone Module)
Module 7 - Enterprise Interoperability Tools
Module 8 - DoD Activity Address Directory (DoDAAD)

http://www.dla.mil/j-6/dlmso
Module Structure - Transaction Supplement Content

- Federal Implementation Conventions (ICs)
- DLMS Supplements to the Federal ICs
- Inherent X12 EDI Enhancements
- Criticality of DLMS Notes
- DLSS/DLMS Mapping
- DLMS Supplement to the Federal E11R IC
Module 4

Objectives

Students will gain basic understanding of:

- The purpose and content of the Federal ICs used in the DLMS
- How DLMS Supplements are used to support DLMS implementation
- Criticality of DLMS Notes
- How to use DLSS/DLMS mapping
- How to read a DLMS Supplement
Federal Implementation Conventions
Hierarchy of Relationship

ASC X12 Transaction Set

business
specific
interpretation

Federally Approved IC
Approved ICs

- All DLMS EDI implementation Conventions are Federally Approved

- Define the structure and content of an ASC X12 EDI standard transaction as it pertains to a particular usage

- Map application data requirements into specific data fields within the transaction set

- Establish the parameters for the corresponding DLMS Supplement
Functionality

- Federal ICs supporting DLMS reflect functionality derived from multiple sources
  - DLSS (or MILS) as currently implemented
  - Approved changes with full Component implementation pending (due to lack of resources & competing priorities)
  - Enhanced capabilities
    - ASC X12 standards-based enhancements
    - DLSS/DLMS approved changes
ASC X12 Standards-Based Enhancements

- 8 digit dates throughout
- Multiple transactions
- Longer data elements: quantities, reference and identification numbers
- Repeating data elements
- Transmission date/time
ASC X12

Standards-Based Enhancements

- Flexible addressing
  - Clear text addressing
  - Codified addressing capability expanded:
    - DoDAAC, RIC, CAGE, DUNS, DUNS+4, MAPAC
- Full line of accounting as discrete data
General Enhancements
(included in most transactions)

• Point of contact information
• Expanded material identification: national stock numbered material, ammunition, forms, publications, subsistence, preferred and substitute NSNs, part number, description
General Enhancements
(included in most transactions)

● Unique item tracking capability
  ✓ Unique item identifier (e.g. IUID UUI Constructs 1 and 2, VIN, etc.)
  ✓ Batch number
  ✓ Lot number
  ✓ Serial Number

● Document number added to provide unique transaction identification
General Enhancements
(included in most transactions)

● Break-out of embedded data
  ✓ Utilization Code (expressed in document number)
  ✓ Security Assistance data
  ✓ Required Delivery Date/Special Requirements Code

● Reduction/elimination of multi-purpose data fields
  ✓ Ownership/Purpose Codes
DLMS Supplements Supporting Use of Federal ICs
Hierarchy of Relationship

ASC X12 Transaction Set

Federally Approved IC

DLMS specific business rules

DLMS Supplement
DLMS Supplements

• DLMS supplements (along with the DLMS manual) constitute DoD's trading partner agreement for use of the Federal ICs within the DoD logistics process

• DLMS supplements incorporate detailed information which would fall outside the scope of Federal ICs - - but which is necessary for a successful, coordinated implementation
The DLMS Supplements mirror the approved Federal ICs and include:

- Federal IC notes (as applicable)
- DLMS notes: Detailed DLMS business rules - the Supplements accept or prohibit options and often add conditions to the use of optional data within DoD logistics
- Key transition guidance governing operation in a mixed DLSS/DLMS environment
Transition Guidance

- Identification and instructions pertaining to:
  - DLMS enhancements
  - Approved changes pending full implementation
  - Field size constraints
  - “Streamlined” DLSS data required for legacy system support, but not intended for use in full DLMS environment
Streamlining Goals

• Reduce retransmission of data perpetuated from previously submitted transactions
  ✓ Already resident in sender’s and receiver’s system Example: Original (non-mandatory) requisition data may be streamlined out of follow-up transactions

• Reduce encoded data content where transaction size constraint was the sole reason for encoding
  ✓ DLMS offers capability to communicate more fully or more precisely
DLMS Supplement Notes

- DLMS Business Rules
- DLMS Enhancements
- Field Size Constraints
- Streamlined Data
- Approved DLMS Changes
Example 1 - DLMS Business Rules

Notes delineate appropriate functional application for a particular transaction.

Federal IC

Introduction:
This Draft Standard for Trial Use contains the format and establishes the data contents of the Warehouse Shipping Order Transaction Set (940) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to enable the depositor to advise a warehouse to make a shipment, confirm a shipment, or modify or cancel a previously transmitted shipping order.

Notes:
Use a single occurrence of this transaction set to exchange single or multiple transactions between a single organization and a single or multiple organizations.

<table>
<thead>
<tr>
<th>Page</th>
<th>Pos.</th>
<th>Seq.</th>
<th>Name</th>
<th>Req.</th>
<th>Max.</th>
<th>Loop</th>
<th>Notes and Comments</th>
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<td></td>
<td></td>
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<td>5</td>
<td>0260</td>
<td>014</td>
<td>Shipping Order Identification</td>
<td>M</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note ID: 0260

940 Warehouse Shipping Order (Material Release)

Federal IC

Introduction:
This Draft Standard for Trial Use contains the format and establishes the data contents of the Warehouse Shipping Order Transaction Set (940) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to enable the depositor to advise a warehouse to make a shipment, confirm a shipment, or modify or cancel a previously transmitted shipping order.

Notes:
Federal Notes: Use a single occurrence of this transaction set to exchange single or multiple transactions between a single organization and a single or multiple organizations.

DLMS Notes: 1. ICCs or BMs use this transaction set to direct storage facility shipments, to reposition inventory between storage facilities, to transmit lateral redistribution orders under Total Asset Visibility (TAV) procedures, to inquire about the status of open shipment directives, to cancel and modify previously sustained shipment directives, and to advise that open shipment directives will be data integrally (force) closed. The Defense Realization and Marketing Service (DRAMS) uses this transaction set to inquire about discrepancies in either shipments to or receipts at a Defense Realization and Marketing Office (DRMO).

2. The Department of Defense (DoD) distinguishes among redistribution orders: material release orders, inquiries, cancellations, and modifications; disposal release orders; inquiries, cancellations, modifications, and disposition confirmation inquiries; historical material release orders; and material release order forced closures.

3. Users operating under the Defense Logistics Management System (DLMS) must reference the Unit of
Example 2 - DLMS Enhancement

- Data associated with a DLMS enhancement may not be received or understood by the recipient's automated processing system
- DLMS procedures may not have been developed
- Components must coordinate requirements and business rules with DLMS office prior to use
Example 3 - Field Size Constraints

- Data elements which have an expanded field size above existing DLSS capability may not be supported by the recipient's automated processing system.

- Components must coordinate implementation with DLMS office prior to use.

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<table>
<thead>
<tr>
<th>Ref. Des.</th>
<th>Data Element</th>
<th>Name</th>
<th>Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>W0101</td>
<td>330</td>
<td>M R 1/15</td>
</tr>
</tbody>
</table>

**Quantity Ordered**

Quantity ordered

**Federal Note:** Use to identify the material quantity associated with the transaction.

**DLMS Note:** A field size exceeding 5 positions may not be received or understood by the recipient's automated processing system. See introductory DLMS note 4d.
Example 4 - Streamlined Data

• DLSS data is retained in the DLMS for a transition period to support transaction conversion in a mixed DLSS/DLMS environment.

• This data will be “streamlined” out once full DLMS implementation is reached.

• Components may coordinate with DLMS office for early termination (or retention) of specific data requirements for users operating in a full DLMS environment.

DLMS Note: Future streamlined data; see introductory DLMS note 3c.
Example 5 - Approved Change

1. Data associated with an Approved Change may not have an established implementation date.
2. This data may not be received or understood by the recipient’s automated processing system.
3. Components must coordinate implementation with DLMS office prior to use.

DLMS Note:
1. Use to identify the Unit of Use Indicator. When included, the quantity and unit of measure values associated with this transaction are applicable to the unit of use.
2. Authorized DLMS enhancement under DLA industrial activity support agreement. Refer to ADC 381.
3. Authorized DLMS enhancement for DLA Disposition Services. Refer to ADC 457.
Example 6 - Repetition of Data

- Repetition of data is not compatible with existing DLSS/DLMS capability.
- This data may not be supported by the recipient’s automated processing system.
- Components must coordinate implementation with DLMS office prior to use.

5. This DLMS Supplement (DS) to the Federal 527R implementation convention contains:

a. Data associated with a DLMS enhancement which may not be received or understood by the recipient’s automated processing system. DLMS procedures may not have been developed. Components must coordinate requirements and business rules with DLA Logistics Management Standards prior to use.

b. Data associated with an Approved Change which may not have an established implementation date. This data may not be received or understood by the recipient’s automated processing system. Components must coordinate implementation with DLA Logistics Management Standards prior to use.

c. Data which is retained in the DLMS for a transition period to support transaction conversion in a mixed DLSS/DLMS environment. This data will be streamlined out once full DLMS implementation is reached. Components may coordinate with DLA Logistics Management Standards for early termination (or retention) of specific data requirements for users operating in a full DLMS environment.

d. Data elements which have an expanded field size above existing DLSS capability which may not be supported by the recipient’s automated processing system. Components must coordinate implementation with DLA Logistics Management Standards prior to use.

e. Data required to accommodate Component-unique transaction requirements (e.g., C-series transactions). Data does not apply to DLSS transactions.

f. Repetition of data (using multiple iterations or loops) which is not compatible with existing DLSS capability. Although supported by the use of the ANSI X12 standard, such data is not compatible with DLSS/DLMS conversion and may not be supported by the recipient’s automated processing system. Components must coordinate implementation of enhanced capability with DLA Logistics Management Standards prior to use.
Example 7 - Authorized Enhancement

- Data associated with an Authorized Enhancement should be included as part of the modernization when applicable.

- Inclusion of this data should not cause an inappropriate rejection of the transaction.

- Prior coordination with DLMS office is not required prior to use.

DLMS Supplement

**Description:** Code qualifying the Reference Identification Feature and code for any code.

**DLMS Note:** For DLMS use, only the following codes are authorized.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>DLMS Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Batch Number</td>
<td>1. Use to identify the batch, lot, or production run. The batch/lot number may not exceed 20 characters in accordance with UID policy.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Use ‘BT’ in 2/REF/250 when UID or serial number does not apply for the item. When UID or serial number is required in addition to batch/lot number, enter the UID or serial number in 2/REF/250 and enter the batch/lot number in 2/N9/270.</td>
</tr>
<tr>
<td>S</td>
<td>Serial Number</td>
<td>1. Use to identify the serial number (when code U3 is not used). Use this qualifier for unique item tracking based upon the serial number.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. DLMS enhancement. See introductory DLMS note 4a.</td>
</tr>
<tr>
<td>U3</td>
<td>Unique Supplier Identification Number (USIN)</td>
<td>1. Use to identify the UID. Place UID value in REF03. The UID may not exceed 50 characters in accordance with UID Policy. An ANSI data maintenance was approved in version 5020. The approved code/name is “UID-Unique Item Identifier”.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Authorized DLMS migration enhancement. See DLMS introductory note 4a.</td>
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DLSS/DLMS Mapping
DLSS/DLMS Conversion

DAAS implements program logic to accommodate conversion between DLSS and DLMS

Identifies data content and location within DLSS and DLMS formats

Reflects conditional data which impact data content and location
The DLSS Fixed Format Requisition

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<tr>
<th>RPs</th>
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<th>RPs</th>
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<td>Fund</td>
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<td>Routing Identifier</td>
<td>54-56</td>
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<td>Media and Status</td>
<td>57-59</td>
<td>Project</td>
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<td>Stock Number</td>
<td>60-61</td>
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<td>25-29</td>
<td>Quantity</td>
<td>65-66</td>
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<td>Document No</td>
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<td>44</td>
<td>Demand</td>
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<td>Referral/Passing Order)</td>
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<td>45-50</td>
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<td>51</td>
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## DI Code A0_, Requisition Material Identification: Record Positions 8-22

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### DLMS Introductory Training: DLSS DI Code A0 - DLMS 511R

#### Material Identification

<table>
<thead>
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<th>Subsistence Identification Code</th>
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<th>Description</th>
<th>Code</th>
<th>Description</th>
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<td>6/22/05</td>
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<td>Manufacturer's Part Number</td>
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<td>If RP1-2=A0 and If RP3=2 or B</td>
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<td>4/27/05</td>
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<td>PO107=RP 13-22</td>
<td>2</td>
<td>4/27/05</td>
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<tr>
<td>Special Material Identification Code</td>
<td>21-22</td>
<td>If RP3=1 or A or RP1-2=CH, CO, or CQ and RP8-9=89 or 13 and RP30=N, P, Q, R, or V and RP1-3=YRZ</td>
<td>LQ01=SMI</td>
<td>2</td>
<td>12/11/02</td>
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<td>If RP3=1 or A and RP1-2=CH, CO, or CQ and RP30=D, E, F, or J</td>
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<td>LQ01=87</td>
<td>2</td>
<td>9/27/01</td>
</tr>
</tbody>
</table>
511R, Requisition

**PO106:**
- **A1** Plant Equipment Number
- **A2** DoD Identification Code (Ammunition)
- **A4** Subsistence Identification Number
- **FB** Form Number
- **FT** Federal Supply Class
- **FS** National Stock Number
- **MG** Manufacturer's Part Number
- **YP** Publication Number

**PO108:**
- **CN** Commodity Name
- **JP** Package Type Code
- **ZB** Commercial and Government Entity (CAGE) Code
Overview of DLMS Supplement to the Federal 511R IC
DLMS 511R, Requisition

**Transaction Set Segments**

**ST Transaction Set Header**

**BR Beginning Segment for Material Management:**
Identifies type of transaction

**N1 Name:** Identifies organization originating the transaction

**G61 Contact:** Identifies a person to whom communication should be directed

**LX Assigned Number:** Marks start of detail loop - each loop represents a new requisition
DLMS 511R, Requisition

Transaction Set Segments - continued

N9 Reference Identification: Identifies document number and various supporting information

P01 Baseline Item Data: Identifies quantity ordered and provides enhanced material identification

DD Demand Detail: Stratifies quantity ordered by demand type and weapon system

GF Furnished Goods and Services: Identifies authority for...
Module 4

DLMS 511R, Requisition

Transaction Set Segments - continued

G62  Date/Time: Specifies pertinent dates and times

LIN  Item Identification:

MEA Measurements:

G69  Line Item Detail-Description:

NTE  Note/Special Instruction:

Provides detailed descriptive data for nonstandard material

exception data when manual intervention needed
Transaction Set Segments - continued

**LM Code Source Information**

**LQ Industry Code**

Identifies DoD code source and the specific applicable code, e.g. project code, advice code, or priority designator code -- capacity almost limitless
DLMS 511R, Requisition

Transaction Set Segments - continued

N1  Name
N2  Additional Name Information
N3  Address Information
N4  Geographic Location

Identifies specific parties by type of, e.g. ship-to, bill-to, status recipients. Allows various identifying codes or description.
## DLMS 511R, Requisition

This Draft Standard for Trial Use contains the format and establishes the data contents of the Requisition Transaction Set (TIN) for use within the context of an Enterprise Data Interchange (EDI) environment. This transaction set is used to initiate the financial accounting components of transactions in an enterprise. The logical data model identifies the data that is exchanged, the content of the exchange, and the relationship between the data. This set is used to initiate the financial accounting components of transactions in an enterprise. The logical data model identifies the data that is exchanged, the content of the exchange, and the relationship between the data. This set is used to initiate the financial accounting components of transactions in an enterprise. The logical data model identifies the data that is exchanged, the content of the exchange, and the relationship between the data.

### Notes:

1. LS1: The LS1 loop identifies logistic data segments to the entire transaction set.
2. LS2: The LS2 loop extends the LS1 loop to identify logistic data segments within the transaction set.
3. LS3: The LS3 loop specifies line item accounting data.
4. LS4: The LS4 loop specifies unique line item identifier and line item accounting data.
5. LS5: The LS5 loop specifies unique item identifier and line item accounting data.
6. LS6: The LS6 loop specifies unique item identifier and line item accounting data.

### Functional Group RN

#### 511 Requisition

<table>
<thead>
<tr>
<th>Reference Identification</th>
<th>Transaction Set Segments - continued</th>
</tr>
</thead>
<tbody>
<tr>
<td>N9</td>
<td>Supports unique item identification</td>
</tr>
<tr>
<td>N1</td>
<td>N1 Name</td>
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<tr>
<td>FA1</td>
<td>FA1 Type of Financial Accounting Data</td>
</tr>
<tr>
<td>FA2</td>
<td>FA2 Accounting Data</td>
</tr>
<tr>
<td>SE</td>
<td>SE Transaction Set Trailer</td>
</tr>
</tbody>
</table>

### Federal Note:

1. Organizations use this transaction set in certain items of supply, to reflect transactions in another supply source for processing, and to transfer information between transactions in another supply source.
2. A single transaction set may contain a combination of requisitions for standard and nonstandard materials.
3. DLMS users should refer to the Defense Logistics Management System (DLMS) Supplement to the Federal Implementation Conventions (C) available at [URL]. The DLMS Supplement provides specific business rules, conditions, and implementation details for appropriate use of the DLMS.

### DLMS Notes:

1. Requisitions for material to be provided as Government Furnished Material (GFM) to commercial contractors, requisitions for excess government owned equipment, requisitions for records and forms, requisitions for other equipment, and requisitions for other supply transactions must be processed in accordance with the DLMS standards.
2. Users working under the Defense Logistics Management System (DLMS) must reference the Uniform Phillips and Procurement Sales Uniform Phillips Table, Transportation Aids of Uniform Phillips Table, and the Accounting Classification Approach which can be found in the Defense Logistics Management Standards Office (DLMSO) web site at [URL].
3. The DLMS Supplement to the Federal Implementation Conventions contains:
   a. Data associated with a DLMS environment which may not be understood or understood by the recipient's automated processing system.
   b. Data associated with an Approved Change which may not be understood by the recipient's automated processing system.
   c. Data associated with a DLMS environment which may not be understood by the recipient's automated processing system.
   d. Data associated with a DLMS environment which may not be understood by the recipient's automated processing system.
   e. Data associated with a DLMS environment which may not be understood by the recipient's automated processing system.
   f. Data associated with a DLMS environment which may not be understood by the recipient's automated processing system.
   g. Data associated with a DLMS environment which may not be understood by the recipient's automated processing system.
   h. Data associated with a DLMS environment which may not be understood by the recipient's automated processing system.

### Data Elements:

- **FA1**: Type of Financial Accounting Data
- **FA2**: Accounting Data
- **SE**: Transaction Set Trailer

### Module 4
DLMS Introductory Training

Module 4

DLMS 511R, Requisitio

Notes:
1. The LU loop identifies logical data connection to the entire transaction set.
2. The LI loop identifies name and address information common to the entire transaction set.
3. The L1 loop identifies name and address information unique to the entire transaction set.
4. Each element of the OUI contains a portion of the transaction identifier with particular logical information codes.
5. Each LU loop identifies the name and address information unique to each LU loop.
6. The PIF form moves serial and serial number inventory data.
7. The PIF loop moves serial and serial number inventory data.

Federal Note:
1. Organizations using this transaction set should review all of the documents for processing, and to transmit to the relevant transaction sets between supply sources.
2. Use a single occurrence of this transaction set to transmit single or multiple requisitions to one or more supply sources.
3. A single transaction set may contain a combination of requisitions for standard and nonstandard material.
4. DoD logistics users should refer to the Defense Logistics Management System (DLMS) Supplement to the Federal Acquisition Regulation (FAR) for more information on processing and logistics support for government-owned items.

DLMS Note:
1. Requisitions for material to be provided by Government Furnished Material (GFM) to commercial contractors, regulations for excess government-owned property, and requisitions for Department of Energy must be processed in support of Federal Acquisition Regulations (FAR) material distribution requirements which do not apply to non-DoD or non-GF requisitions.
2. Users operating under the Defense Logistics Management System (DLMS) must refer to the DOD Acquisition Plan and purchase Unit Conversion Table. Transportation Loading of Shipments (Conversion Table), and the Accounting Classification Appendix, which can be found on the Defense Logistics Management Standards Office (DLMOS) web site at www.dla.mil/dlmos.

This DLMS Supplement to the Federal 511R requisition convention contains:
1. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. DLMS procedures may not have been developed. Components must coordinate requirements and business rules with DLMOS prior to use.
2. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.
3. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.
4. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.
5. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.
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7. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.
8. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.
9. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.
10. A data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. Components must coordinate requirements and business rules with DLMOS prior to use.

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31708
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Module 4

DLMS Introductory Training

DLMS 511R, Requisition Supplement

Refer to hard-copy DLMS Supplement for a closer look.
Summary

- **DLMS provides a new logistics data exchange format**
  - ✓ Commercial vs. DoD proprietary standard
  - ✓ Variable length vs. 80-record position records
  - ✓ W3C compliant XML schema formats

- **Supports new data content to meet DoD needs**

- **Provides opportunity to reengineer logistics business processes**

- **Supports emerging business/electronic commerce capabilities**
Module 4 Quiz

Question 1: Where do you look to find DLMS specific business rules?

   a) DLMS Supplement
   b) Yellow Pages
   c) ASC X12 transaction set
   d) Federally approved Implementation convention

Question 2: If implementing a DLMS enhancement, which of the following must be done?

   e) Read DLMS Supplement notes
   f) Coordinate with trading partner
   g) Cross your fingers
   h) Check for an implementing ADC or check with DLMS office

Question 3: What does DAAS do to facilitate DLSS/DLMS conversion?

   i) Implements program logic to automate conversion
   j) Identifies data content and location within the DLSS/DLMS formats
   k) Reflects conditions that impact data content and location
End of Module 4