Defense Logistics Management Standards (DLMS) Introductory Training

DLMS Functionality & Transaction Life-Cycle

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 Implementation Convention Content
Module 5 - IUID & RFID - Emerging Technologies
Module 6 - Creating/Reengineering DOD Logistics Business Processes
Module 7 - Enterprise Interoperability Tools
Module 8 - DoD Activity Address Directory (DoDAAD)
Module 9 - Supply Discrepancy Reporting (SDR)
Module 10 - DLMS Functional Financial Transaction (standalone)
Module 11 - Creating/Reengineering DOD Logistics (standalone)

www.dla.mil/does/DLMS
Module 3 Structure

DLMS Functionality & Transaction Life-Cycle

- Relationship Between the DLMS EDI & MILS
- DLMS Functionality by Transaction
- DLMS Program Office Web Site Navigation

Module 3 Objectives

Students will gain a basic understanding of:

- Relationship of the DLMS and MILS data formats
- High level functionality of the DLMS
- Relationship among DLMS business transactions
- Breadth of functionality covered by the DLMS
- Functional and data enhancements afforded by DLMS
- How to navigate the DLMS Program Office web site as a DLMS resource
Data Relationship Between the DLMS EDI and the MILS 80 Record Position Fixed Length Data Field formats

EDI Document Structure

The MILS Fixed Format Requisition

<table>
<thead>
<tr>
<th>RPs</th>
<th>Field Legend</th>
<th>Sample Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-03</td>
<td>Document Identifier</td>
<td>A01</td>
</tr>
<tr>
<td>04-06</td>
<td>Routing Identifier</td>
<td>SMS</td>
</tr>
<tr>
<td>07</td>
<td>Media and Status</td>
<td>B</td>
</tr>
<tr>
<td>08-22</td>
<td>Stock Number</td>
<td>5910001234567</td>
</tr>
<tr>
<td>23-24</td>
<td>Unit of Issue</td>
<td>EA</td>
</tr>
<tr>
<td>25-29</td>
<td>Quantity</td>
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<tr>
<td>30-43</td>
<td>Document No</td>
<td>FB230093070001</td>
</tr>
<tr>
<td>44</td>
<td>Demand</td>
<td>R</td>
</tr>
<tr>
<td>45-50</td>
<td>Supplementary Address</td>
<td>A</td>
</tr>
<tr>
<td>51</td>
<td>Signal</td>
<td>KZ</td>
</tr>
<tr>
<td>52-53</td>
<td>Fund</td>
<td>9GF</td>
</tr>
<tr>
<td>54-56</td>
<td>Distribution</td>
<td>08</td>
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<tr>
<td>57-59</td>
<td>Project</td>
<td>777</td>
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<tr>
<td>60-61</td>
<td>Priority</td>
<td>2A</td>
</tr>
<tr>
<td>62-64</td>
<td>Reqd. Delivery Date</td>
<td>N1*Z4<strong>M4</strong>SMS**TO^</td>
</tr>
<tr>
<td>65-66</td>
<td>Advice</td>
<td>FA1<em>DY</em>D40^</td>
</tr>
<tr>
<td>67-69</td>
<td>Blank (Date of Rcept on Referral/Passing Order)</td>
<td>FA2<em>B5</em>KZ^</td>
</tr>
<tr>
<td>70-80</td>
<td>Blank (Intra-Service use)</td>
<td>SE<em>14</em>00000001^</td>
</tr>
</tbody>
</table>
DLMS & MILS
Transaction Relationship

<table>
<thead>
<tr>
<th>DLMS</th>
<th>MILS Document Identifier Code (DIC)</th>
</tr>
</thead>
</table>
| | D6K/D6L/D6M/D6N/D6Q/D6R/D6T/D6U/
| | D6V/D6X/D6Z/
| | DRA/DRB/DRF/
| | DXA/DXB/DXC/DXD/
| | DZK |

1 DLMS Transaction 33 MILS Transactions 5 Families

Transactions within a MILS family:
• Same first 2 characters of the Document Identifier Code
• Data content nearly identical – lots of reusability

DLMS Functional Transaction Life-Cycle Overview
**DLMS Introductory Training**

**Module 3 - DLMS Functionality & Trans Life-Cycle**

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**DLMS Requisition Cycle**

1. **Requisition**

   - **Retail Base**
   - **Source of Supply (SOS)** ICP/IMM
   - **USTRANSCOM**
   - **Defense Finance and Accounting Service**
   - **Distribution Depot or Vendor**

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**DLMS Requisition Cycle**

- **Retail Base**
- **SOS**
- **DLMS 511R MILS/DICs A0_, A3_, A4_ & C0_, CH_, CQ_, YRZ**
## DLMS 511R, Requisition

### Basic Functionality
- Standard and non-standard materiel
- Government-furnished materiel (GFM)
- Security Assistance
- Passing orders
- Referral orders

### DLMS Enhancements
- Transaction set preparation date/time
- Unit Price/Total Dollar Value
- Utilization code
- Special requirements code
- Points of contact
- Detailed line of accounting components

## DLMS 511R, Enhancements

### Applicable to Non-Standard Materiel
- Supporting Document No.
- Color
- Drawing Revision No.
- Catalog Number
- Series Identifier
- Model Number
- Figure Number
- General Specification No.
- Manufacturer’s Name
- Process Number
- Publication Number
- Dimension/Measurement
- Material Description
- Potential Source of Supply
- End Item Manufacturer
DLMS Introductory Training

Module 3 - DLMS Functionality & Trans Life-Cycle

DLMS 511R, Requisition

After initial submission . . . . .

DLMS Requisition Cycle

1. Requisition

Retail Base

SOS

2a. Supply Status

DLMS 870S
DICs AE_

DLMS 940R
DICs A5_

2b. Materiel Release Order

Distribution Depot or Vendor
Transportation

- USTRANSCOM leading transportation reengineering efforts
- DOD goal is a paperless business environment using e-Business
- Wide range of transportation specific ICs
- Procedures governed by DTR

DLMS Requisition Cycle

1. Requisition
2a. Supply Status
2b. MRO
3a. MRC
3b. Shipment Status
4. Movement Document Transaction
5. Materiel Receipt Acknowledgement
DLMS 527R DIC DRA
SOS

Material Shipments
Distribution Depot or Vendor
**DLMS INTRODUCTORY TRAINING**

**Module 3 - DLMS Functionality & Trans Life-Cycle**

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**DLMS Requisition Cycle**

1. **Requisition**
2. **Supply Status**
3. **MRC**
4. **Movement Document Transaction**
5. **MRA**
6. **Logistics Bill**

DFAS (Acting as Customer’s Agent)

SOS

Distribution Depot

or Vendor

Retail Base

---

**Receipt Processing**

*(New Procurements)*

1. **Electronic Order**
2. **Materiel Shipment**
3. **Material Acceptance**
4. **Material Receipt**
5. **Materiel Shipment**
6. **Logistics Bill**

DFAS (Acting as Customer’s Agent)

SOS

Distribution Depot

Vendor
Physical Inventory Control Program

1. Physical Inventory Request
   - DLMS 846P / DIC DJA, DZJ
   - DLMS 846P / DIC DZM
   - DLMS 846R / DIC DZH
   - DLMS 947I / DIC D8_ & D9

I = ICP-initiated Physical Inventory Request
II = Location Reconciliation
III = Depot-initiated Physical Inventory Request

1. Location Reconciliation Notification
2. Location Reconciliation
3. Transaction History
4. Location Reconciliation Transaction Count

1. Physical Inventory Request
2. Inventory Gain/Inventory Loss
3. End of Day Process
4. End of Day (EOD) Transaction Count

I = SOS

Sample of DLMS Enhancements

- Automation of previously manual processes such as Supply Discrepancy Reporting (SDR) DLMS 842A/R
- Mass transaction modification and cancelation capability—previously addressed by single line item or requested off-line
- Separately identify supply & transportation priorities
- Transmission to recipients of Radio Frequency Tag Identifier (RFID) at multiple tagging indenture levels
- Transmission of Unique Item Identifier (UII) of items
- Capability to transmit clear text exception data
- Capability to transmit detailed Contract, Storage data, etc.
- Inclusion of Component unique data
- Current data enhancements by DLMS Implementation Convention published on DLMS web site.
DLMS Introductory Training

DLMS GFP Accountability Enhancements

New transaction data & business rules required by ADC 390, 1014 and 1014A:

- Full DFARS contract number data in GFP requisitions DLMS 511R.
- Include contract data in the DLMS 527R Receipt and MRA transactions.
- MCA or DAAS when acting on behalf of the MCA perpetuate contract number data in requisition 511R and MCA Validation DLMS 517G.
- Source of supply (SOS) perpetuate the GFP contract data in the Materiel Release Order (DLMS 940R) sent to supply depot for stock issues.
- Shipping activity or SOS, as applicable, to perpetuate the GFP contract number data to the shipment status (DLMS 856S).
- Contractors using DLMS transactions & shipping GFP into DOD inventory identify GFP contract data in shipment status transaction (DLMS 856S or 856R) and shipping documentation.
- Include contract data in the DLMS 940R when used to direct reparables for induction to commercial maintenance & perpetuate contract data in status trans.
- Contract number on the DLMS 856S, Shipment Status, when used for DD 1149 requirements and shipping to a contractor as GFP.
- Stock issues require the shipping activity to identify the GFP contract number on the Issue transaction DLMS 867I.

DLMS Functionality

**Discrepancy/Deficiency Programs**
- 842A/R, 842AW, 842C/R, 842C/I, 842S/Q, 842S/R

**BRAC IMSP**
- 832N, 940S, 843A, standard MILSTRIP, MILSTRAP, MILSBILLS

**Asset Reclassification**
- 846A

**Transportation/pRFID**
- Visibility (XML), Visibility Response (XML), Reader Registration (XML)

**MILSTRIP**

**Contract Administration**
- 567C, 856, 861

**Small Arms/Light Weapons**
- 140A, 888A

**Demand Data Exchange**
- 830D

**General**
- 824R, 997

**Disposition Services**
- 832N, 846C, 996H, standard MILSTRIP, MILSTRAP, MILSBILLS

**Medical Unit Assembly Program**
- 650A, 650C

**Weapon System**
- 888W

*Reference Tab N for details*
The DLMS Program Office
Web Site
A Valuable Resource

www.dla.mil/does/DLMS

Easy Access To:

- Latest published MILS & DLMS manuals
- DLMS Implementation Conventions
- DLMS XML Schemas
- Process change documentation (PDCs, ADCs)
- Committee information
- DLMS Dictionary
- Logistics Data Resources Management System (LOGDRMS)
- DLMS Training
- And more – worth exploring!!!
DLMS INTRODUCTORY TRAINING
Module 3 - DLMS Functionality & Trans Life-Cycle

Quick link to
the DLMS Implementation Conventions

Jump to a specific Transaction
DLMS INTRODUCTORY TRAINING
Module 3 - DLMS Functionality & Trans Life-Cycle

DLMS Enhancement File
Implementation Convention: 511R
X12 Version/Release: 4010

Change Log

<table>
<thead>
<tr>
<th>Date</th>
<th>Change</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 14, 2013</td>
<td>Added</td>
<td>0191 DLMS Enhancements</td>
</tr>
<tr>
<td>Oct 22, 2013</td>
<td>Added</td>
<td>0192 DLMS Enhancements</td>
</tr>
<tr>
<td>Oct 24, 2013</td>
<td>Added</td>
<td>0195 DLMS Enhancements</td>
</tr>
<tr>
<td>Oct 31, 2013</td>
<td>Added</td>
<td>0203 DLMS Enhancements</td>
</tr>
<tr>
<td>Nov 9, 2013</td>
<td>Added</td>
<td>0441 DLMS Enhancements</td>
</tr>
<tr>
<td>Feb 11, 2015</td>
<td>Added</td>
<td>0668 DLMS Enhancements</td>
</tr>
<tr>
<td>Feb 18, 2015</td>
<td>Added</td>
<td>0673 DLMS Enhancements</td>
</tr>
<tr>
<td>Feb 17, 2015</td>
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<td>0674 DLMS Enhancements</td>
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<tr>
<td>Feb 23, 2015</td>
<td>Added</td>
<td>0675 DLMS Enhancements</td>
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<td>Feb 25, 2015</td>
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<td>0676 DLMS Enhancements</td>
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<tr>
<td>Feb 27, 2015</td>
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<td>0677 DLMS Enhancements</td>
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<tr>
<td>Jul 1, 2015</td>
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<td>0678 DLMS Enhancements</td>
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<tr>
<td>Jul 14, 2015</td>
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<td>Dec 30, 2015</td>
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<td>Dec 19, 2015</td>
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<td>1124 DLMS Enhancements</td>
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<td>Aug 30, 2016</td>
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<td>1327 DLMS Enhancements</td>
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<td>Sep 9, 2016</td>
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<td>1361 DLMS Enhancements</td>
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<tr>
<td>Mar 1, 2017</td>
<td>Added</td>
<td>1323 DLMS Enhancements</td>
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</tbody>
</table>

Introductory Notes:

DLMS enhancements are capabilities (such as the exchange of Unique Identification (UDI) data) that are implemented in the DLMS transactions but cannot be implemented or exchanged in non-DLMS (i.e., Legacy, DLSS, or MEL3) format transactions.

As the components within the logistics domain and new enhanced capabilities, they are added to the DLMS Implementation Convention (IC) using the Procedure-Approved Change (P-APC) process. The following enhancements have been added to the SDLMS IC:

- DLMS Enhancement File
- X12 Version/Release: 4010
- DLMS IC: 511R

DLMS Enhancement Report – 511R (table)

<table>
<thead>
<tr>
<th>DE4</th>
<th>Location</th>
<th>EnhancementEntry</th>
<th>DLMS Proc</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-9.11.7</td>
<td>OP Automotive PROVIDER</td>
<td>E1 Management Control Activity</td>
<td>1</td>
<td>DLMS Enhancement, new mandatory Part 1a.</td>
</tr>
<tr>
<td>1-9.11.7</td>
<td>OP Automotive PROVIDER</td>
<td>E2 Party Passing the Transaction</td>
<td>1</td>
<td>DLMS Enhancement, new mandatory Part 1a.</td>
</tr>
<tr>
<td>1-9.11.10 and 1-9.11.11</td>
<td>Department of Defense Address Code (DDAC)</td>
<td>DMDP</td>
<td>1</td>
<td>DLMS Enhancement, new mandatory Part 1a.</td>
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<tr>
<td>1-9.11.12</td>
<td>Contact</td>
<td>Use under exceptional circumstances when requiring direct communication with the party originating the transaction or communication statement.</td>
<td>1</td>
<td>DLMS Enhancement, new mandatory Part 1a.</td>
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<tr>
<td>2-9.11.10</td>
<td>OB - Expected-Ship Date/Date</td>
<td>Use to exchange the Expected Ship Date/Date</td>
<td>1</td>
<td>DLMS Enhancement, new mandatory Part 1a.</td>
</tr>
</tbody>
</table>

LOD 12 added to this list on 10/8/14

LOD 12 added to this list on 12/19/15

LOD 12 added to this list on 10/9/16
ANSI ASC X12 mandates use of ANSI code list values in X12 transaction transmissions where they exist.

There are three ANSI Code lists that must be used in DLMS transactions:

- Mode of Shipment
- Type of Pack
- Unit of Measure

DLMS Conversion guides map DOD definitions to desired X12 definitions:

- DOD applications must convert outbound transactions from DOD code values to ANSI code values based on DLMS Conversion Guide definitions.
- DOD applications must convert inbound transactions from ANSI code values to DOD code values based on DLMS Conversion Guide definitions.
Defense Logistics Management Standards (DLMS) / ASC X12 Conversion Guides

Three DLMS sets of conversion guides contain a cross reference of DoD domain codes (data item codes) to ASC X12 domain code values. All three conversion guides must be implemented in DoD systems using ASC X12 transaction formats to convert DoD data values established in legacy systems to the corresponding ASC X12 transaction values. The appropriate conversion guides are:

1. Transportation Mode of Shipment/Transportation Method/Type Code Conversion Guide
2. Type of Pack Conversion Guide
3. Unit of Material Measure (Unit of Issue/Purchase Unit) Conversion Guide

These conversion guides are available in three different sets, each containing:
- ASC X12 Code Sequence
- ASC X12 Name Sequence
- DoD Code Sequence
- DoD Name Sequence
Module 3 - DLMS Functionality & Trans Life-Cycle

Transportation Method/Type Code Conversion Guide

<table>
<thead>
<tr>
<th>DOD Code</th>
<th>Name/Definition</th>
<th>DOD Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Motor, rail, truck</td>
<td>B</td>
</tr>
<tr>
<td>B</td>
<td>Air freight, barge, ship</td>
<td>C</td>
</tr>
<tr>
<td>C</td>
<td>Rail</td>
<td>D</td>
</tr>
<tr>
<td>D</td>
<td>Domestic</td>
<td>E</td>
</tr>
<tr>
<td>E</td>
<td>Foreign</td>
<td>F</td>
</tr>
<tr>
<td>F</td>
<td>Surface mail, express mail, courier, overnight</td>
<td>G</td>
</tr>
<tr>
<td>G</td>
<td>Special handling, air mail, parcel post</td>
<td>H</td>
</tr>
<tr>
<td>H</td>
<td>Air mail, international, foreign</td>
<td>I</td>
</tr>
<tr>
<td>I</td>
<td>Domestic, foreign</td>
<td>J</td>
</tr>
<tr>
<td>J</td>
<td>International</td>
<td>K</td>
</tr>
</tbody>
</table>

Listing of PDCs

Defense Logistics Management Standards

Welcome to the Enterprise Business Standards Office

DLMS Center of Excellence

Defense Logistics Management Standards are a set of best practices that provide guidance for efficient and effective logistics operations. The standards are designed to improve logistics processes and procedures, and to ensure that all logistics activities are conducted in accordance with established policies and procedures. The standards cover a wide range of topics, including procurement, inventory management, and transportation. By implementing these standards, logistics managers can improve the efficiency of their operations and ensure that they are compliant with all relevant regulations and laws. The DLMS Center of Excellence is responsible for developing and maintaining the Defense Logistics Management Standards, and for providing training and support to logistics managers and staff across the Department of Defense.
Template & Instructions for Change Proposal Submissions

DLMS Change Status Review
### DLMS Change Status Review

**1000-Series DLMS Change Status Review**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
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<th>N</th>
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</thead>
<tbody>
<tr>
<td>Updated 07/31/2017</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

This document contains reports that can be accessed using the tabs at the bottom of the window:

1. **DLMS Change Report** - lists all released POCs and AOCs
2. **DLMS Change Report (1)** - lists recent POCs and AOCs, in addition to drafts pending release
3. **Component Response Report** - lists Component responses to POCs
4. **Overrun Component Response Report** - lists Components that have not responded to POCs (not yet released as an AOC) by their suspension date
5. **Implementation Status Report** - lists the active AOC implementation status as communicated by the Components
6. **DLMS Publication Report** - lists OCM Manuals and Volumes that are impacted by active AOCs
7. **DLMS K Report** - lists DLMS implementation conventions that are impacted by active AOCs

If you have questions about these reports, you can contact DLMSO by visiting http://www.dla.mil/MW3/Information/Operations/Defense-Logistics-Management-Standards/comment_form/.

**Report Control Symbol** (RCS) DD-(474)/(483)

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### Sample of the DLMS Change Status Report

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Summary

- DLMS provides a new logistics data exchange format
  - Commercial vs. DOD proprietary standard
  - Variable length vs. 80-record position records with fixed data lengths
  - W3C compliant XML schema formats
  - Web Services
- Supports new data content to meet DOD needs
- Provides opportunity to reengineer logistics business processes
- Supports all current and future business/electronic commerce data transmission requirements

Module 3 Quiz

Question 1: Which of the following are DLMS enhanced capabilities?
   a) Automation of previously manual processes e.g. Supply Discrepancy Reporting
   b) Mass transaction modification and cancelation capability
   c) Separately identify supply & transportation priorities
   d) Transmission of Radio Frequency Tag Identifier (RFID)
   e) All the above

Question 2: Which is not a basic functionality of the 511R?
   a) Ordering Standard and non-standard materiel
   b) Security Assistance Program materiel ordering (FMS)
   c) Receipt and Acceptance of materiel
   d) Passing and Referral orders

Question 3: If the DOD code (e.g., “AD”) is not the same as an ASC X12 code, where do you find the cross reference conversion tables?
   a) Federally approved implementation convention
   b) DLMS Program Office web site at DLMS/ANSI conversion guides
   c) Appendix 13 of DLM 4000.25
End of Module 3