MODERNIZING THE FOUNDATION OF LOGISTICS SYSTEMS

Product Data (Logistics Operations)

June 21, 2000
Simulation Based Lifecycle Management
Design-in Force Agility, Enable “Opergistics”

Corporate Global Information Grid Portfolio
Secure - Scalable - Interoperable - Responsive

Competitively Selected, Optimal Mix of Commercial & Govt Partners

Community Integrated Data Environment
Created Virtually via Standards

Transaction Data
Commercial EDI/XML

Structural Data
Intelligent Product Data Models

Svc/Agcy App. Portfolios - Mission Focused &
End to End - Seamless - Interoperable
-Leveraged COTS

Military LogOps
Shift interface burden to Corporate services

Many-to-Many

Many-to-One/One-to-Many

Today

Tomorrow

...to accelerate logistics systems modernization
Data Access Technology

eXtensible Markup Language (XML)

Today (HTML)... Allows you to “FIND THE BOOK”
NOT A SUBSTITUTE FOR EDI

Tomorrow (XML) ... Allows you to query and “FIND THE ANSWER,”
a rapid search capability

Flexible method for exchanging data in a web environment
XML Enhances Logistics Operations Data

- XML does not replace EDI

- XML is a technology that enables and extends EDI
  - Enables rapid change of business processes
  - Facilitates configuration management of data
  - Provides access to models and data over the web

Turns transaction history into Web-accessible, actionable information
• Without ... “Everybody doing their own thing”
  ✓ Increases time and cost for JV2010 integration
  ✓ Slows implementation of COTS and commercial practices
  ✓ Impedes a common logistics picture for the joint warfighter

• With ... “Centralized Corporate services approach”
  ✓ Supports Community’s aggressive modernization
  ✓ Increases speed, lowers cost of systems integration
  ✓ Supports situational awareness
Summary

• **DRID #48**
  - Enables acceleration of system migration

• **Data Access Technology**
  - XML - provides accessible, actionable data to warfighter

• **Data Management Discipline**
  - Key enabler for interoperability

• **Logistics Operations Data**
  - Important
  - Achievable
  - Action-oriented

• *Wide support for translation, business rules and data management, especially data management.* Other comments:
  - Need to synchronize POA&M with higher level timeframes
  - Fixing data management should precede other investments
  - POA&M was light on data management specifics
  - Any DLA POM issue for e-commerce should address data management requirements
  - Post-LFSG Observation: LIB members must ensure their Components are adequately, competently involved with Logistics FDAD
Log Ops
“Transactional” Data Update

DRID #48
*Enables migration to commercial standards*
  - IPT charter revised to address LFSG issues
  - Draft being staffed with stakeholders
  - Draft charter/transitioning IPT to be discussed at June 21 IPT meeting

Data Access Technology
*Provides accessible, actionable data*
  - Developing CONOPs for applying XML framework to EDI
  - XML Transition to coincide with Logistics Strategic Plan
  - Working toward Community Integrated Data Environment

Data Management Discipline
*Key enabler for interoperability*
  - Working DLA response to May 11 DUSD(L) memo
    - Draft charter, implementation plan to reinvigorate logistics data management
  - Continuing work with USTRANSCOM on reference tables
  - Working Policy issues with CIO - DoD 8320.1 Policy
MARCH 27
PRODUCT DATA (SYSTEM STRUCTURE)

APRIL 28
ASSURED INFORMATION INFRASTRUCTURE

MAY 19
PRODUCT DATA (LOGISTICS OPS)

July 13 --monthly thereafter
• LOGISTICS PORTFOLIO MANAGEMENT
  • Review all against POA&M
Back-Up Slides
Update to DRID #48 IPT
June 21, 2000

Logistics Foundation Steering Group

May 19, 2000
Agenda

• Introduction

• Product Data (Logistics Operations)

• Update on Other Foundation Elements
  ✓ Product Data (Systems Structure)
  ✓ Assured Information Infrastructure

• Wrap Up
MODERNIZING THE FOUNDATION OF LOGISTICS SYSTEMS

Product Data (Logistics Operations)

May 19, 2000

Lt Col Rich Modell
Phone: 703-767-0671
E-Mail: rich_modell@hq.dla.mil
www.dlmso.hq.dla.mil
www.log.edi.migration.hq.dla.mil
Building the Logistics Future

GOVERNANCE PROCESS

PRODUCT DATA (System Structure and Logistics Ops)

ASSURED INFORMATION INFRASTRUCTURE

PROJECT AND SUSTAIN THE FORCE

JOINT LOGISTICS / WARFIGHTING APPLICATIONS

ARMY LOGISTICS APPLICATIONS

USMC LOGISTICS APPLICATIONS

NAVY LOGISTICS APPLICATIONS

AIR FORCE LOGISTICS APPLICATIONS

DLA LOGISTICS APPLICATIONS

PM LOGISTICS APPLICATIONS

Today
• DRID #48 - Adoption of Commercial EDI Standards for DoD Logistics Business Transactions

• Data Access Technology
  ✓ eXtensible Markup Language (XML)

• Data Management Discipline

• Plan of Actions and Milestones (POA&M)
Product Data (Logistics Ops)

Shift interface burden to Corporate services

Many-to-Many

Many-to-One/One-to-Many

Translation Services

Data Management

Business Rules

Trading Partners

Navy

Army

USMC

Air Force

CINCs

DFAS

DLA/DoD Agencies

Non-DoD Agencies

Trading Partners

Navy

Army

USMC

Air Force

CINCs

DFAS

DLA/DoD Agencies

Non-DoD Agencies

Corporate Services

Today

Tomorrow

...to accelerate logistics systems modernization
DRID #48
(Logistics Migration to Commercial EDI Standards)

• What?... Moves DoD from military unique to commercial data exchange standards and reinvigorates community information services

• Why?... Removes key barrier to adopting COTS solutions and eases interactions internally and with commercial providers

• How?... Implements standards and services as part of overall modernization

Accelerating the rate of change
EDI Migration Paths

**Today Near-Term Future**
(3-5 Years) (>5 Years)

**Characteristics of Current Environment**
- **DoD-Unique**
  - Business Practices
  - Systems
  - Data
    - Interfaces
    - Data Elements
    - Codes

**Characteristics of Target Environment**
- **Open International (Commercial)**
  - Best Business Practices
  - Commercial Off-The-Shelf Software
  - Shared / Integrated Data

**Standards**
- MILS
- 80 column card formats
- ANSI ASC X12
- UN/EDIFACT
- Web-based EDI (e.g., XML) standards

**Implementation Conventions (ICs)**
- DLSS
- 450 +/- Transaction Sets Embedded In Systems
- ANSI ASC X12
- 55 ICs
- Separates Data From systems
- Web-interpretable
- Repository-based ICs

**Data**
- Redundant Data
- Complex/Unique Codes
- Multiple Replications
- Data Management
- Data Independence
- Common Data
- Data Reference Model

**Pace of standards, ICs, and data must be synchronized**
Logistics Operations Data Status

Dec 1998: DRID 48...directed implementation of commercial standards

Sep 1999: USD(AT&L) Memo...issued guidance and policy

Mar 2000: DUSD(L) Memo...limited changes to DLSS/MILS

Apr 2000: Corporate-level EDI Implementation Plan...published DoD-wide plan to migrate to commercial standards

May 2000:
- DoD EDI policy Directive 8190.1...implements Logistics EDI policy
- Defense Logistics Data Administration Policy Memo...reinvigorates Logistics data administration process

Oct 2000: Service & Agency Implementation Plans due to DLMSO...
Today (HTML)... Allows you to “FIND THE BOOK”
NOT A SUBSTITUTE FOR EDI

Tomorrow (XML) ... Allows you to query and “FIND THE ANSWER,”
a rapid search capability

Flexible method for exchanging data in a web environment
XML Enhances Logistics
Operations Data

➤ XML does not replace EDI

➤ XML is a technology that enables and extends EDI
  ✓ Enables rapid change of business processes
  ✓ Facilitates configuration management of data
  ✓ Provides access to models and data over the web

Turns transaction history into Web-accessible, actionable information
Data Management Discipline

• Without ... “Everybody doing their own thing”
  ✓ Increases time and cost for JV2010 integration
  ✓ Slows implementation of COTS and commercial practices
  ✓ Impedes a common logistics picture for the joint warfighter

• With ... “Centralized Corporate services approach”
  ✓ Supports Community’s aggressive modernization
  ✓ Increases speed, lowers cost of systems integration
  ✓ Supports situational awareness
Current Data Challenge
Example-Reference Tables

• There is no defined process for implementing DoD data standards

• As a result, systems are not using standard reference tables for common look-up data, such as country code, airport code, etc

• Unsynchronized reference tables degrading Defense Transportation System (DTS) performance

• Interim solution at TRANSCOM (creation of a “DTS Reference Table Steward to manage/synchronize reference tables across multiple systems) resolves problem on a table-by-table, system-by-system basis

• But feeder systems and reference tables external to DTS are a large part of the problem—DTS Steward

Data implementation process requires Community involvement
• **Jul ‘00 - Issue Policy**
  - Reinvigorate Logistics Operations Data management efforts
  - DLA eBusiness Office manage business rules for data exchange regardless of medium

• **Aug ‘00 - Transition IPT** (established under DRID #48)
  - Assist Components with building their implementation plans
  - Harmonize / deconflict Component implementation plans
  - Chart the way ahead, including corporate process reinvigoration
  - Develop ConOps for XML framework applied to EDI

• **Sep ‘00 - Infuse industry best practices** into DoD data management process
  - Streamline strong configuration management process
  - Partner with industry to influence industry standards
  - Participate in industry activities (eBusiness)
Summary

• **DRID #48**
  ✓ Enables acceleration of system migration

• **Data Access Technology**
  ✓ XML - provides accessible, actionable data to warfighter

• **Data Management Discipline**
  ✓ Key enabler for interoperability

• **Logistics Operations Data**
  ✓ Important
  ✓ Achievable
  ✓ Action-oriented

• **Wide support for translation, business rules and data management, especially data management.** Other comments:
• Need to synchronize POA&M with higher level timeframes
• Fixing data management should precede other investments
• POA&M was light on data management specifics
• Any DLA POM issue for e-commerce should address data management requirements
• Post-LFSG Observation: LIB members must ensure their Components are adequately, competently involved with Logistics FDAD