Outline

• Background/History
• GEIA-STD-0007
• GEIA-HB-0007 Content
• Policy Memo’s
• PLCS DEXs
• Questions
Collaboration & INTEROPERABILITY

DOD Life Cycle Management Framework

Integrated Defense Acquisition, Technology, & Logistics Life Cycle Management Framework

Where’s the Data?
GEIA-STD-0007: Logistics Product Data

- Define Logistics Product Data Generated During Design of a System, End Item, or Product
- Define Data Exchange Mechanisms
# LMI Content Comparison

## MIL-STD-1388-2B, Logistics Support Analysis Record

<table>
<thead>
<tr>
<th>R&amp;M Rqts</th>
<th>FMECA</th>
<th>Task Analysis</th>
<th>Skills</th>
<th>Spt Equip</th>
<th>Facilities</th>
<th>Trans</th>
<th>PTD/ Packaging</th>
</tr>
</thead>
</table>

## MIL-PRF-49506, Logistics Management Information

<table>
<thead>
<tr>
<th>User Defined Data (1388-2B or other?)</th>
<th>PTD/ Packaging</th>
</tr>
</thead>
</table>

## GEIA-STD-0007, Logistics Product Data

<table>
<thead>
<tr>
<th>R&amp;M Rqts</th>
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</tr>
</thead>
</table>
GEIA-STD-0007: Logistics Product Data

- Data Schema
- Data Element Dictionary (594 Data Elements)
- XML Schema for Data Exchange of Logistics Product Data
  - Update/Change Process
    - XML Schemas for Transaction Sets
      - Provisioning Data & Style Sheet (Meets CCSS/LMP Input Requirements)
      - Packaging & Style Sheet (Meets DD-2326 Packaging Requirements)
      - Task Analysis

XML Schemas Provide Mechanism for Data Exchange/Delivery
The “BIG Picture”

- DoD Framework
  - Supportability Analysis
  - Analysis Process

- LMI/GEIA-STD-0007
  - Logistics Management Information

- Contracting Process

- System Support
  - IETM
  - Training
  - Provisioning
  - Parts Lists, etc.
GEIA-HB-0007 Handbook

- Description of the Logistics Product Data Entities and Attributes (When Required, Sources, Indenture Level Relationships, Primary Use)

- Overview of how (e.g. what analysis) and when Logistics Product Data is generated during the development process (AP239 and DOD Lifecycle Models)

- Contracting for Logistics Product Data

- Appendices
  - Attribute Selection Sheet
  - LCN, ALC and UOC Guidance
  - Data Cross Reference List (LMI, GEIA-STD-0007, DEF STAN 00-60, MIL-STD-1388-2B)
  - US Navy Logistics Product Data Report Requirements
Contracting for Logistics Product Data

- GEIA-STD-0007 Adopted by DOD as Non-Government Standard – Listed in Assist (Defense and Federal Specifications Database)

- New Data Item Descriptions
  - DI-SESS-81758, Logistics Product Data
  - DI-SESS-81759, Logistics Product Data Summaries

- No Need to Cite MIL-PRF-49506 (LMI)

- Army Adoption Notice
ADOPTION NOTICE


This Standard defines Acquisition Data needed to define the support system for new products, systems and end items. GEIA-STD-0007 is a new and improved replacement for the cancelled MIL-STD-1388.2B.

Custodians:  Adopting Activity:
Army – TM2 Army – TM2
(Project SESS-2008-011)

Note: Since organizations and responsibilities can change, you should verify the currency of the Information above using the ASSIST Online database at http://assist.daps.dla.mil

AREA SESS

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.
MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Government Electronics and Information Technology Association Standard 0007 (GEIA-STD-0007), Logistics Product Data

The Army supports GEIA-STD-0007, Logistics Product Data, as a non-government standard (NGS) to facilitate an interoperable approach for managing product and technical data across the Army.

GEIA-STD-0007, Logistics Product Data was published in August 2007 and represents a significant improvement in the range and depth of logistics data that can be acquired during design and acquisition of Army systems. In addition, GEIA-STD-0007 uses the latest technology for delivery/exchange of data via standardized XML Schemas and Style Sheets.

This office supports the adoption and use of this standard on all Army acquisition efforts in lieu of MIL-PRF-49506, Logistics Management Information. Implementation and acquisition of GEIA-STD-0007 data and summaries will be accomplished via the new Data Item Descriptions DI-SESS-81758, Logistics Product Data and DI-SESS-81759, Logistics Product Data Summaries.

My points of contact for this action are Mr. Larry Hill, (703) 604-7450, or email: larry.w.hill1@us.army.mil and Mr. Matthew Adams, (703) 604-7448, or email: matthew.adams2@hqda.army.mil.

Wimpy D. Pybus
Deputy Assistant Secretary of the Army (Acquisition, Policy and Logistics)
What’s Next?

LSAR Data Exchange Sets (DEXs)

Integrating GEIA-STD-0007

With

ISO 10303 AP239, Product Life Cycle Support (PLCS)
What is a DEX?
Data Exchange

- **Central Exchange**
  - Federated database, must establish exchange agreements with each “Partner”.

- **Point to Point**
  - Simple exchange, must establish exchange agreements and Protocols with each Partner

- **Closely Tied**
  - Related exchange, typically similar data and structure
**Data Exchange**

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- **Closely Tied**
  Related exchange, typically similar data and structure.

- **Standards or DEXs**
  They Provide for exchange of data no matter the architecture or method chosen.
Logistics Data Standards – 1990’s

Contractor A

LSAR Relational Tables

MIL-STD-1388-2B Files

Prime Contractor

LSAR Relational Tables

MIL-STD-1388-2B LSA-36 File

DOD Service Provisioning System

Validated Software

Validated Software

**Metadata Missing:**

- Project Data Assumed
- Security Classification Assumed
- Data Relationships Assumed
  - e.g. CAGE Assigned by DLA Vice NATO
- Data Submitted/Updated Assumed
- Data Revisions Via Change Files

*Early Form Of DEXs*
XML Schema Based
Metadata Embedded in DEX
Unambiguous Data Relationships
Revision Status Identified
Software and Storage Not an Issue
Organization for Advancement of Structured Information Standards (OASIS)
DEX Content

- Abstract
- Introduction
- Terms
- Scope
- AP239 Activity Model - Activities/tasks (e.g. LSA Tasks)
- Business Overview – What Data and Why
- Business Information Overview – High level description of the types of data being exchanged
- Business Information Requirements – UML Model (GEIA-STD-0007)
- AP239 Representation – Express-G Model AP239 Capabilities, Templates & Ref Data
- Capabilities/Templates
- Schema
- Reference Data - (GEIA-STD-0007 Data Element Definitions)
- [http://www.plcs-resources.org/plcs/dexlib/dex_index.htm](http://www.plcs-resources.org/plcs/dexlib/dex_index.htm)
LOGSA DEX Efforts To Date

• Created Draft GEIA-STD-0007 Data Exchange Sets (DEXs) that are AP239, Product Life Cycle Support Compliant

  • Breakdown Element (X Entities)
  • Operations and Maintenance Requirements (A Entities)
  • Reliability and Failure Modes (B Entities)
  • Task Analysis (C Entities)
  • Skills (G Entities)
  • Facility (F Entities)
  • Support Equipment (E/U Entities)
  • Transportability (J Entities)
  • Provisioning and Cataloging (H Entities)
Questions??
Collaboration & INTEROPERABILITY
Conference - May 17-20, 2009

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US AMC LOGSA
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Key PLCS DEX Relationships

- **DEX**
  - Defined by
  - Formally specified by
  - "Generic"

- **Capability**
  - Defined by
  - Identifies
  - Use
  - Formally specified by

- **Template**
  - Use

- **Ref Data**
  - Use
  - Specialize
  - Use

- **Business DEX**
  - Defined by
  - Derives
  - Use
  - Formally specified by

- **Business Object**
  - Use

- **Business Ref Data**
  - Use

- **Business Template**
  - Use

- **PLCS**
  - Support Engineering
  - Resource Management
  - Configuration Management
  - Maintenance & Feedback