Future Direction of Standards in Logistics Engineering
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**Report Documentation Page**

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Standard Form 298 (Rev. 8-98)  
Prescribed by ANSI Std Z39-18
Standards Environment

- Background
- ASD Suite of Standards
- TechAmerica Standards
- ISO 10303 Standards
- MIL Standards
- Summary
Where we were…
Where we are going - Logistics View

1984
MIL-STD-1388-1/2A
DOD/Industry/International Use

1991
MIL-STD-1388-2B
1388-1A/2B Cancelled
-> MIL-PRF-49506
-> DEF STAN 00 60

1996

2007
49506 Cancelled
S3000L & PLCS DEXs
GEIA-STD-0007

2010
0007A PLCS DEXs

2011

1388-1A?
• **GEIA-STD-0007, Logistics Product Data**
  – Data Exchange Standard
  – Based on cancelled MIL-STD-1388-2B/MIL-PRF-49506
  – Stepping Stone to Implementation of ISO 10303, AP239, PLCS Data Exchange Sets
• **EIA-836A, Configuration Management Data Exchange and Interoperability**
  – Replaces MIL-STD-2549
• **EIA-649, Configuration Management**
  – Re-instatement of MIL-STD-973 Under Consideration
• **EIA-632, Processes for Engineering a System**
• **EIA-859, Data Management**
ASD Standards Implementation

• **S1000D**, International specification for technical publications
  - MIL-STD-3031, Army Business Rules for S1000D

• **S2000M**, Materiel Management
  - GEIA-STD-0007, Logistics Product Data (Initial Provisioning Data)
  - Future Harmonized Data Exchange Set (S2000M/GEIA-STD-0007)

• **S3000L**, International procedure specification for Logistics Support Analysis
  - Similar Data Model with GEIA-STD-0007
  - Mixes Normative and Informative - Difficult to Contract For
  - Re-instatement of Logistics Support Analysis Military Standard - Normative Approach

• **S4000M**, International procedural handbook for developing scheduled maintenance programs
  - SAE JA 1011/1012 RCM Standard/Guide

• **S5000F**, Specification for Operational and Maintenance Data Feedback
  - MIMOSA, Open Systems Architecture for Enterprise Application Integration/Condition Based Maintenance
• STEP is an established international standard for the exchange, integration and sharing of product data via Application Protocols (APs)
  – Geometry
  – Product structure
  – Manufacturing interfaces
  – Drawings
  – Finite Element Analysis
  – Printed Circuit Assemblies
  – Wiring looms
  – Mechanical Design
  – Construction industry
• Supports wide range of IT – ASCII, databases, XML, XMI,…..
• Process modelling independent of information in EXPRESS
• Defines all activities required to develop, field and sustain a product (IDEFO Model)

• Includes Complex Data Model

• Implementation of Data Model Via Data Exchange Sets (DEXs)
Current OASIS (Organization for the Advancement of Structured Information standards) AP239 Data Exchange Sets (DEX)

- Aviation Maintenance
- Faults Related to Product Structures
- Item Identification
- Maintenance Plan
- Operational Feedback
- Product as Individual
- Product Breakdown for Support
- System Requirements
- Task Set (Published)
- Work Package Definition
- Work Package Report

LOGSA Working On Nine DEXs Using GEIA-STD-0007

New Industry Standard for Exchange of Acquisition Logistics Data
Military Standards

- Recently Renewed MIL Standards

  - MIL-STD-31000 Tech Data Packages
  - MIL-STD-3031 Army Business rules for S1000D Tech Pubs
  - MIL-STD-46855 Human Factors Engineering

- Other MIL Standards revitalized?

  - MIL-STD-973 Configuration Management
  - MIL-STD-1388-1 Logistics Support Analysis
  - Etc...
Striking the Best Balance
For Acquisition Logistics Data
Questions?