GEIA-STD-0007 Logistics Product Data Training

USAMC Logistics Support Activity (LOGSA)

U.S. Army Materiel Command
Logistics Support Activity
Sparkman Center, Bldg 5307
Redstone Arsenal, AL 35898-7466
www.logsa.army.mil
Outline

• Background/History
• Why GEIA-STD-0007
• GEIA-STD-0007 Content
• GEIA-HB-0007 Content
• Relationship/Differences with MIL-STD-1388-2B
• Next Steps
MIL-STD-1388-2A
1984

1991
MIL-STD-1388-2B

1996

1991

DOD Acquisition Reform

1388-2B Cancelled
-> MIL-PRF-49506
-> DEF STAN 00 60

2007

GEIA-STD-0007

DOD/Industry/International Use
Acquisition Reform

- OSD Mandate For Change
  - Dr. Perry’s Guidance June 1994
- DOD Will Rely on Commercial Products and Processes
- MIL-STD-1388 STDs Cancelled – 1996
- Twelve Years Since MIL-STD-1388-2B was Eliminated
  - What are program offices using?
  - Is there still standardization in data?
  - 86% in MIL-STD-1388-2B Format
Where are we Going?

- Fact: Re-establishing MIL-STD-1388, Will NOT happen!

- Direction → Industry Standards

- Utilizing the Defense Acquisition Life Cycle Framework
  - Effectively Replacing MIL-STD-1388-1A LSA Processes

- Working within the Framework of the Government Electronics and Information Technology Association (GEIA)
  - GEIA-STD-0007, Logistics Product Data
  - GEIA-HB-0007, Handbook and Guide for Logistics Product Data
  - Effectively Replacing MIL-STD-1388-2B, LSAR Data Exchange
The “BIG Picture”

DoD Framework

Supportability Analysis

PLCS Activities

GEIA-STD-0007

Logistics Product Data

PLCS DEXs

System Support

IETM
Training
Provisioning
Parts Lists
Etc…
Integrated Defense Acquisition, Technology, & Logistics Life Cycle Management Framework

The process flow diagram outlines the various stages and decision points in the lifecycle management of defense acquisition, technology, and logistics. It includes key phases such as Concept Refinement, Technology Development, System Development & Demonstration, Production & Deployment, and Operations & Support. The diagram emphasizes the collaborative efforts and decision-making processes involved in these stages, highlighting the importance of strategic planning and execution in achieving successful defense outcomes.
• Define Logistics Product Data Generated During Design of a System, End Item, or Product
• Define Data Exchange Mechanisms
GEIA-STD-0007 Content

- Functional Area Entities/Attributes (Data Schema)
  - Cross Functional Requirements
  - Operations and Maintenance
  - Reliability Requirements and Analysis
  - Task Analysis
  - Skill and Training
  - Support Equipment
  - Unit Under Test
  - Facility
  - Transportability
  - Provisioning and Cataloging Requirements
- Data Types Dictionary
- XML Schema for Logistics Product Data
  - Update/Change Process
- XML Schemas for Transaction Sets
  - Provisioning & Style Sheet
  - Packaging & Style Sheet
  - Task Analysis
• Cross Functional Requirements (X Entities)
  – Product Breakdown via LSA Control Number
  – Functional, Physical or Hybrid Breakdown
  – End Product Identification
  – Model(s) Identification
• Operations and Maintenance (A Entities)
  – Requirements Parameters, e.g. Required Mean Time Between Failure
  – Annual Operating Requirements
  – Contract Based Requirements
• Reliability Requirements and Analysis (B Entities)
  – Failure Modes Effects and Criticality Analysis
  – Reliability Centered Maintenance Analysis
  – Maintainability Analysis
  – Captures Predicted and Measured Parameters
  – Tied to Task Analysis
  – As Design Based
• **Task Analysis (C Entities)**
  – Corrective and Preventive Maintenance Tasks
  – Operation Tasks
  – Detailed Task Narrative
  – Times to Repair (Elapsed and Man-hours)
  – Resources Required (Support Equipment, Skills, Facilities and Parts)
  – As Designed Based
• Support Equipment/Unit Under Test (E/U Entities)
  – Characteristics of Support/Test Equipment (Existing and New)
    • Physical Characteristics
    • Test Parameter Capabilities and Accuracy
    • Allocation and Distribution Information
  – Unit Under Test, Interconnecting Devices, Test Program Sets and Test Equipment Relationships and Parameters to Test
• Facility (F Entities)
  – Identification of Existing or New Facilities
  – Characteristics of Facility
  – Linked to Task Analysis
• **Skills and Training (G Entities)**
  – Identification of Existing or New Skills
  – Educational Qualifications
  – Training Requirements
  – Linked to Task Analysis
• Transportability (J Entities)
  – Transportation Characteristics of End Product or Sectionalized End Product
  – Identifies Modes of Transportation (e.g. Rail, Air, Helicopter, Truck)
Transportability Requirements

- JB_transportation_shipping_modes_data
- JA_transportation_data
  - XB_logistics_support_analysis_control_number_indentured_item_data
  - XA_end_item_acronym_code_data
- JE_transport_by_fiscal_year_data
- JC_transported_end_item_data
• Provisioning and Cataloging Requirements (H Entities)
  – Parts Breakdown of End Product (As Designed)
  – Characteristics of Each Part and Relationship to Next Higher Assembly
  – Initial Provisioning Information
  – Follow-on Provisioning Information Based On Design Change Notices
  – Linked to Models and End Product Serial Numbers
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<th>TYPE</th>
<th>MAX LENGTH</th>
<th>DEFINITION</th>
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| achieved_availability_Type | 1010             | decimal 9 | 9          | The probability that, when used under stated conditions in an ideal support environment, a system will operate satisfactorily at any time. This differs from Inherent Availability only in its inclusion of consideration for preventive action. $A_0$ excludes supply downtime and administrative downtime. The measurement bases for MTBM and $M$ must be consistent when calculating $A_0$. $A_0$ may be expressed by the following formula: $A_0 = \frac{MTBM}{MTBM + M}$ where $MTBM = (\sum_{i=1}^{N} (ET_i - TFi) -1) + \sum_{i=1}^{N} (TFi)$ $M = \sum_{i=1}^{N} (TF_i)$ 

$MTBM = \text{Mean time between maintenance}$
XML Schema’s

- GEIA-STD-0007 Schema and Types File
  - Full/Add Schema
  - Key Field Change Schema
  - Global Delete Schema
  - Element Change

- Task Analysis Schema

- Packaging Schema and Style Sheet
  - DD Form 2326 Format

- Provisioning Schema and Style Sheets
  - DOD Format (LSA-036)
Logistics Product Data Handbook
GEIA-HB-0007 Outline

• 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
Supportability Analysis Process
Supportability Analysis Process

Concept Refinement Phase/Generate Support Solution

DOD Life Cycle Framework Analyses

• Perform Use Study
• Perform Comparative Analysis
• Identify Standardization Opportunities
• Functional Requirements Analysis
• Define Supportability Factors

Product Life Cycle Support Activities

• Define Support Context
  ➢ Life & Usage Profile
  ➢ Available Resources
• Establish Requirements
  ➢ Elicit Stakeholder Needs
  ➢ Define Support Requirements

GEIA-STD-0007

• X Entities – Cross Functional Requirements
• A Entities – Operations & Maintenance Requirements
Supportability Analysis Process

Technology Development Phase/Generate Support Solution

DOD Life Cycle Framework Analyses

- Update Comparative Analysis
- Identify Standardization Requirements
- Define Functional Requirements
- Conduct Tradeoff Analysis
- Conduct Sensitivity Analysis
- Conduct Limited Task Analysis

Product Life Cycle Support Activities

- Define Support Solution
  - Establish Support Drivers
  - Task Analysis - Potential Tasks
  - Predict Support Performance & Resource Use

GEIA-STD-0007

- X Entities – Cross Functional Requirements
- B Entities – Reliability Requirements & Analysis
- C Entities – Task Analysis

September 8 – 12, 2008     Pittsburgh, PA
Supportability Analysis Process

System Development & Demonstration Phase/Generate Support Solution

DOD Life Cycle Framework Analyses

- Define Functional Requirements
- FMECA
- Failure Tree Analysis
- RCM
- Task Analysis
- LORA
- Supportability Testing

Product Life Cycle Support Activities

- Predict Support Performance & Resource Use
- Task Analysis
- Define Support Solution
  - Support Policy
  - Support Plan
  - Task Procedures
  - Assemble Solution
- Assess Support Performance

GEIA-STD-0007

- X Entities – Cross Functional Requirements
- B Entities – Reliability Requirements & Analysis
- C Entities – Task Analysis
- E Entities – Support Equipment
- U Entities – Unit Under Test
- F Entities – Facilities
- G Entities – Skills & Training
- H Entities – Provisioning & Cataloging
Supportability Analysis Process

Production & Deployment Phase/Commission Support Solution

DOD Life Cycle Framework Analyses

- Supportability Testing
- Provisioning
- Parts Screening (Cataloging)
- Early Fielding Analysis

Product Life Cycle Support Activities

- Assess Support Performance
- Define Support Solution
- Provisioning

GEIA-STD-0007

- X Entities – Cross Functional Requirements
- H Entities – Provisioning & Cataloging
- All Other Entities Affected by Testing
Supportability Analysis Process

Operation & Support Phase/Provide Support

DOD Life Cycle Framework Analyses

• Materiel Fielding Analysis
• Post Production Support Analysis

Product Life Cycle Support Activities

• Analyze Support Feedback
• Collect Data and Provide Feedback

GEIA-STD-0007

• All Entities Affected by Data Collection and Feedback
The “BIG Picture”

DoD Framework

Supportability Analysis

PLCS Activities

GEIA-STD-0007

Logistics
Product Data

PLCS DEXs

System Support

IETM
Training
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Parts Lists
Etc…
Contracting for Logistics Product Data

The Process

- Identify Required Support Products
- Identify GEIA-STD-0007 Data Elements
- Identify GEIA-STD-0007 XML Schemas
- Identify Required Reports/Summaries
Logistics Product Data - Support Products

• **Maintenance Planning**
  – Maintenance Plan
  – Maintenance Allocation Chart
  – Preventive Maintenance Checks & Services
  – Maintenance Procedures for IETMs (Task Analysis XML Schema)

• **Support and Test Equipment**
  – Support Equipment Recommendation Data
  – Calibration Maintenance Requirements Summary
  – TMDE Registration

• **Supply Support**
  – Provisioning Technical Documentation Lists (Long Lead, Post Conference, Common, Bulk Items, etc.) (Provisioning XML Schema & Style Sheet)
  – Design Change Notice Information
  – Cataloging/Screening/Parts Breakout
  – Indentured Parts List (for IETMs)
• Manpower, Personnel & Training
  – Qualitative & Quantitative Personnel Requirements Information
  – Manpower Authorization Criteria
  – Task Inventory/Training Task List
  – New/Modified Skill/Training Requirements
  – Identification of Training Devices

• Packaging, Handling, Storage, and Transportation
  – Packaging and Preservation Data (Packaging XML Schema and Style Sheet)
  – Transportability Requirements

• Facilities
  – New/Modified Facilities Requirements
  – Maintenance Tasks Requiring New/Modified Facilities

• Reliability and Maintainability
  – Reliability Centered Maintenance Results
  – FMECA Results
• 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**
# Identify the Data Uses and Analyses Needed for Logistics Product Data

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# Document Required Data on the Attribute Selection Sheet

## Appendix A

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*Attach to DI-SESS-81758*
DI-SESS-81758

DATA ITEM DESCRIPTION

Title: Logistics Product Data

Number: DI-SESS-81758

AMSC Number: 9608

DTIC Applicable:

Office of Primary Responsibility: TM2

Applicable Form(s):

Use/relationship: Logistics Product Data comprises the support and support-related engineering and logistics data acquired from contractors that the requiring authority needs to develop their internal material management processes. This includes data for maintenance planning, to include identification of resources (e.g., personnel, support equipment, facilities and transportation), initial provisioning, cataloging, item management and in-service feedback:

a. This DID contains the format and content preparation instructions for Logistics Product Data required by Section 2 and Appendix A of GEIA-STD-0007, Logistics Product Data.

b. This DID is applicable to the acquisition of military systems, equipment and components. It is not intended that all the requirements contained herein should be applied to every program. This DID should be tailored to the minimum requirements of the applicable contract or purchase order.

c. The delivery method (e.g., on-line access, compact disk, DVD, etc.) are left to the discretion of the requiring authority and the contractor.

Requirements:

1. Reference Documents. The applicable issue of the documents cited herein, including their approval dates and the dates of any applicable amendments, notices, and revisions, shall be specified in the contract.

   GEIA-STD-0007, Logistics Product Data
   GEIA-DR-0007, Logistics Product Data Handbook
   (copies of both documents available at www.geia.org)

2. Format. The XML Schemas and XML Style Sheets contained in Appendix C and D of GEIA-STD-0007 shall be used as the format for delivery of the Logistics Product Data at a format specified in the contract.
Use to Acquire Reports/Summaries – e.g. LSA-036
Provisioning Technical Documentation

DI-SESS-81759

DATA ITEM DESCRIPTION
Title: Logistics Product Data Summaries
Number: DI-SESS-81759 Approval Date: 20080716
AMSC Number: 9082
DTIC Applicable:
Office of Primary Responsibility: TM2
Applicable Forms:

Use/relationship: Logistics Product Data Summaries consist of information required for
the requiring authority to conduct logistics planning and analysis, influence program
decisions, assess design status, and verify contract performance. Requirements for
these summaries shall be coordinated with data requirements of other program functional
elements to minimize redundancies and inconsistencies.

a. It is not intended that all the requirements contained herein should be applied to every
program. This DID should be tailored to the minimum requirements of the applicable
contract or purchase order.

b. This DID is applicable to acquisitions of military systems, equipment, and
components.

Requirements:
1. Referenced Documents. The applicable issue of the documents cited herein, including
their approval dates and the dates of any applicable amendments, notices, and revisions,
shall be specified in the contract.

GEIA-STD-0007, Logistics Product Data
GEIA-HB-0007, Logistics Product Data Handbook
(copies of both documents available at www.geia.org).

2. Format. The formats for Logistics Product Data Summaries are left to the discretion
of the requiring authority.

3. Content. The contract identifies the required Logistics Product Data Summaries,
desired information per summary, and associated guidance. The Attribute Selection
Sheet (Appendix A, GEIA-HB-0007), or some other requirements identification tool
contained in the contract, shall specify the selected data contained in GEIA-STD-0007.
Logistics Product Data Summaries include:

Attach Format
Example Format for Provisioning Parts List

TABLE I. LSA-036 report format.
Contracting for Logistics Product Data Summary

- Identify Required Support Products

- Identify the Appropriate XML Schema for Data Transfer
  - Logistics Product Data
  - Provisioning
  - Packaging
  - Task Analysis

- Use DID-SESS-81758 Citing:
  - Appropriate GEIA-STD-0007 XML Schema
  - Attribute Selection Sheet

- Use DID-SESS-81759 To Acquire Logistics Reports/Summaries (e.g. Maintenance Plan, Maintenance Allocation Chart, Provisioning Parts List, etc.)
MIL-STD-1388-2B
To
GEIA-STD-0007
Differences
2B to 0007 Differences

• **General Changes**
  - Narrative Fields
    - Codes to Define Type of Narrative Eliminated
    - Narrative Element Attribute Names Clearly Identify Type of Narrative
    - Narrative Fields Have Unlimited Size (XML Blob)
  - Attribute Names More Descriptive
  - No Reports → XML Schema Exchange Sets

• **X Entities**
  - Added Ability to Associate an Electronic Document With LSA Control Number
  - Added Work Area Zone
• **A Entities**
  - Narrative Fields Attribute Names Revised
  - New Data Elements
    • Mean Time Between Effective Function Failures
    • Required Mean Time Between Non-Effective Function Failures
    • Required Mean Time Between System Aborts
• **B Entities**
  - Narrative Fields Attribute Names Revised:
    - Table BB Narrative Collapsed into Entity BA
      ➢ RAM Characteristics
    - Table BC Narrative Collapsed into Entity BA
      ➢ System Redesign/Logistics Consideration
    - Table BG Narrative Collapsed into Entity BF
      ➢ Failure Mode/RCM
    - Table BJ Narrative Collapsed into Entity BI
      ➢ Mission Phase
  - Added New Data Elements
    - Mean Time Between Effective Function Failures
    - Mean Time Between Non-Effective Function Failures
    - Mean Time Between System Aborts
• **C Entities**
  – Table CC Narrative Collapsed To Entity CB (Task Description)
  – New Entities Added to Establish Interface With S1000D Data Module Code
    - CL Task/Subtask Warning/Caution/Notes Narrative
    - CM Electronic Documentation
    - CN Maintenance Procedure Inventory
    - CO Maintenance Procedure Task Sequence
  – Added Ability to Associate an Electronic Document With a Subtask (Entity CQ)
2B to 0007 Differences

• **E Entities**
  - Narrative Fields Attribute Names Revised:
    • Table EE Narrative Collapsed into Entity EA
      ➢ Support Equipment Characteristics
    • Table EG Narrative Collapsed into Entity EF
      ➢ SERD Remarks

• **F Entities**
  - Narrative Fields Attribute Names Revised:
    • Table FB Narrative Collapsed into Entity FA
      ➢ Facility Capability
    • Table FC Narrative Collapsed into Entity FA
      ➢ Baseline Facility Requirements
    • Table FD Narrative Collapsed into Entity FA
      ➢ New or Modified Facility Information
  - Added Ability to Associate an Electronic Document With a Facility
2B to 0007 Differences

• **G Entities**
  – Narrative Fields Attribute Names Revised:
    • Table GC Narrative Collapsed into Entity GB
      ➢ New or Modified Skill Requirements

• **J Entities**
  – Narrative Fields Attribute Names Revised:
    • Table JD Narrative Collapsed into Entity JC
      ➢ Transported End Item Requirements
    • Table JF Narrative Collapsed into Entity JA
      ➢ Transportation Characteristics

• **U Entities**
  – Narrative Fields Attribute Names Revised:
    • Table UF Narrative Collapsed into Entity UA
      ➢ Unit Under Test Explanation
2B to 0007 Differences

**H Entities**
- Table HE Collapsed into Entity HD
  - Unit of Issue/Measure Price Consolidated
- Packaging Elements Revised per MIL-STD-2073
- Narrative Fields Attribute Names Revised:
  - Table HI Narrative Collapsed into Entity HG
  - Table HL Narrative Collapsed into Entity HK
  - Provisioning Nomenclature
- Added Ability to Associate an Electronic Document With a Part/Part Application/Design Change
  - Entities HX, HY & HZ

Appendix C of GEIA-HB-0007 Provides Detailed Cross Reference Matrix for All Data Elements
## Appendix C Matrix Example

<table>
<thead>
<tr>
<th>-2B Table</th>
<th>MIL-STD-1388-2B Field/Element Name</th>
<th>DEF-STAN-00050 Field/Element Name</th>
<th>GEIA-STD-0007</th>
<th>LMI Element Name (161 total)</th>
<th>MIL-STD-1388 format</th>
<th>GEIA-STD-0007 format type</th>
<th>GEIA-STD-0007 plain format</th>
<th>GEIA-STD-0007 XML format</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hf</td>
<td>Unit Pack Cube</td>
<td>Unit Pack Cube</td>
<td>maximum_unit_pack_cube</td>
<td>UNIT_PACK_CUBE</td>
<td>INR= decimal</td>
<td>numbers only from 0-9999 or from 0-9999.0</td>
<td>(E-0(0,3))((D-0(0,4); (D-0(0,3); (D-0(0,3))</td>
<td>Element name and meaning changed in 0007.</td>
<td></td>
</tr>
<tr>
<td>Hf</td>
<td>Unit Pack Size; Depth [Inches]</td>
<td>Unit Pack Size; Depth [Inches]</td>
<td>maximum_unit_pack_depth</td>
<td>UNIT_SIZE</td>
<td>INR= decimal</td>
<td>numbers only from 0-9999 or from 0.0000</td>
<td>(E-0(0,3))((D-0(0,3); (D-0(0,3); (D-0(0,1))</td>
<td>Element name and meaning changed in 0007.</td>
<td></td>
</tr>
<tr>
<td>Hf</td>
<td>Unit Pack Size; Length [Inches]</td>
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<td>maximum_unit_pack_length</td>
<td>UNIT_SIZE</td>
<td>INR= decimal</td>
<td>numbers only from 0-9999 or from 0.0000</td>
<td>(E-0(0,3))((D-0(0,3); (D-0(0,3); (D-0(0,1))</td>
<td>Element name and meaning changed in 0007.</td>
<td></td>
</tr>
<tr>
<td>Hf</td>
<td>Unit Pack Size; Width [Inches]</td>
<td>Unit Pack Size; Width [Inches]</td>
<td>maximum_unit_pack_width</td>
<td>UNIT_SIZE</td>
<td>INR= decimal</td>
<td>numbers only from 0-9999 or from 0.0000</td>
<td>(E-0(0,3))((D-0(0,3); (D-0(0,3); (D-0(0,1))</td>
<td>Element name and meaning changed in 0007.</td>
<td></td>
</tr>
<tr>
<td>Hf</td>
<td>Unit Pack Weight</td>
<td>Unit Pack Weight</td>
<td>maximum_unit_pack_weight</td>
<td>##X##</td>
<td>string</td>
<td>5</td>
<td>Element name and meaning changed in 0007.</td>
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<tr>
<td>Hf</td>
<td>Wrapping Material</td>
<td>Wrapping Material</td>
<td>WRAPPING MATERIAL</td>
<td>##X##</td>
<td>string</td>
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<tr>
<td>Hf</td>
<td>CATEGORY 1 CONTAINER MANUFACTUR-ER CODE</td>
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<tr>
<td>Hf</td>
<td>CATEGORY 1 CONTAINER REFERENCE NUMBER</td>
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</tr>
</tbody>
</table>

*September 8 – 12, 2008  Pittsburgh, PA*
What’s Next

• **S3000L, Logistics Support Analysis Handbook and Standard**
  – Defines Analysis Tasks and Interrelationships
  – Defines Task Analysis Related Data Elements
  – Defines S3000L to S1000D Data Exchange Set
  – Final Draft – December 2008

• **GEIA-STD-0007 Evaluations:**
  – Additional Data Elements
  – S1000D Interfacing Data Elements
• Creating GEIA-STD-0007 Data Exchange Sets (DEXs) that are AP239, Product Life Cycle Support Compliant
  • Breakdown Element
  • Operations and Maintenance Requirements
  • Reliability and Failure Modes
  • Task Analysis
  • Skills
  • Facility
  • Support Equipment
  • Transportability
  • Provisioning and Cataloging

What’s A DEX? Tomorrow!
GEIA-STD-0007 Summary

• Re-Establishes Industry/DOD Exchange of LSAR Data

• GEIA-STD-0007 & GEIA-HB-0007 Published Aug 07

• Develop/Participate in ISO PLCS DEXs
  – Draft DEXs Created
  – Formal Staffing To Be Scheduled
• Bryant Allen/Jim Colson  (US AMC LOGSA)
  – logsa.multiview@conus.army.mil
  – 256-955-9935/256-955-9928

• GEIA-927 & GEIA-HB-927
  – www.geia.org

• GEIA-STD-0007/GEIA-HB-0007
  – www.geia.org