U.S. Army Materiel Command

LOGSA VTC with MG Stevenson

10 Oct 03

ESSENTIAL IN PEACE, INDISPENSABLE IN WAR
Distribution Management
Retrograde / Distribution Management
LOGSA Initiatives

ISSUES
- TDC provides no STAMIS feeds indicating receipt, consolidation and forward movement of shipments
- Invalid TCN structures (ZZZ) from SSA under SSF
- RF-TAG commodity data (level 6) is not been written when leaving Theater causing manual effort to identify items being retrograded
- Multiple bottlenecks identified in OIF supply pipeline (Depot, CCP, Theater Distribution)

LOGSA INITIATIVES
- Expand existing RF-TAG feeds to incorporate Commodity Data Feeds. This will assist to rectify the problem from lack of consolidation transaction feeds from TDC.
- Stand-up DM IPT at LOGSA
  - Coordinate DM Efforts with AMC, MSCs, and Pipeline Stakeholders
  - Develop Solutions; Facilitate Improvement Where Needed in the Pipeline
- Develop Improved Supply Pipeline Metrics
  - Real-Time and Predictive Metrics
  - Metrics Useful to Stakeholders at All Levels
- Develop Analytical Capabilities to Improve DM
  - Process Improvement Studies for Selected Pipeline Nodes (Ops Research Contact Teams)
  - Predict Effects of Changes to Supply Pipeline (“What-If” Analyses via Modeling & Simulation)
Stryker Brigade Combat Teams
Coordination Actions

- **July 02**: Supported Millennium Challenge 02 at National Training Center
  - Provided Help Desk, Logistics Problem Reachback Support
- **May 03**: Coordinated With LSE Stryker Forward, 311th COSCOM, 3/2 ID and 1/25 ID at Fort Lewis
  - Resolved Readiness and Serial Number Issues
- **May 03**: Attended SBCT CERTEX at JRTC
  - Discussed DA G-4 Concern With Lack of Stryker Demand Data, and Potential Solution, With Gen Kern
- **July 03**: Met with PM Stryker
  - Obtained Historical DMIS Based Stryker Demand Data
- **Aug 03**: Coordinated with CASCOM ISD to set up meeting to leverage development actions
  - Review Calibre/DMIS Initiative
  - Review Current Retail STAMIS - LOGSA Connectivity
  - Discuss Sentinel Part Number Architecture
LOGSA Support to SBCT Actions Completed

- Developed Vehicle ASIOE and Component Data Base for Each Stryker Variant
- Enabled SBCT Readiness Reporting by Loading 3/2 and 1/25 Supporting Retail Systems With Maintenance Master Data File (MMDF) Data
- Producing Stryker Readiness Reports for Each Stryker Model
- Assigned a RIC Code and DODAAC for Contractor Facility at Auburn, WA
  - RIC C5J
  - DODAAC CK0RK3
- Developed an Assets on Hand to Serial Number Cross Reference Table as a First Step in Enabling Stryker Serial Number Tracking
LOGSA Support to SBCT (Cont’d.)

Actions Completed

- In Conjunction With 311\textsuperscript{th} COSCOM and PM Stryker, Developed a Plan to Collect Stryker Unique Demand Data With Currently Available Automated Systems
- Forward Deployed LOGSA Personnel to Assist SBCT Brigades and EAB Resolve Logistics/Readiness Issues
Future/Ongoing SBCT Support

- Build a Supplemental Stryker Part Number Catalog for Download to SARSS
  - Currently Done for Sentinel, ITAS and Javelin Weapon Systems
  - Began Initial Conversations With PM SBCT as Best Means for Facilitating This Effort
  - Obtained Provisioning Master Record Data From PM Stryker
  - Obtained Part Number Demand Data From DMIS/PM

- Build a Part Number to NSN Cross Reference in *Pipeline* Module of LIDB Using Stryker Catalog as Baseline
  - Allows for Tracking Stryker Demands and Requisitions Over Stryker Life Cycle, From ICLS to Organic Support

- Build Warfighter SBCT Web Capability as a One Stop Shop for Stryker Readiness, Demand, Usage, Serial Number, Assets On-Hand Information
Sentinel Requisition Part Number Flow

LOGSA

Monthly SARSS Catalog Feed

SARSS2A

SARSS2AC/B

Raytheon RIC = CLC

DAAS

STAMS

PM Sentinel

Sentinel Total Asset Management System Catalog Data (STAMS) ITV

ULLS SAMS SPBS-R

LOGSA

Requisitions Demand Data

Shipments FEDEX, DHL, etc.

STAMS

Sentinel Part Number Catalog Addendum to NSN Catalog

Data Feeds

OSMIS, Resource Models, Logistics Applications
SBCT Personnel Support

- On Site Support at Fort Lewis
  - Mr. Rivera Attached to LSE Forward Stryker in Support of 3/2 ID
  - Deployable Asset

- Functional Contractor at Redstone

- Technical Contractor at Redstone On-Board 30 Days

- LOGSA Has Options in Contract to Provide Additional Contractor Support for Each Additional Stryker Brigade
Autopsy Reporting
Purpose

- **Purpose**
  - To provide an information briefing on the Logistics Transformation Task Force Initiative to Develop an Autopsy Report

- **LTTF Decision Paper - Problem Statement**
  - Local Unit Commander and PMs/AMC MSCs are not getting sufficient feedback from the field on major assembly and/or expensive component failures

- **Proposed Solution**
  - Develop an Autopsy Report focusing on formalizing the process to communicate equipment failure information to the local chain of command and the proponent PM /commodity command for high dollar components (those with a FEDLOG unit price > $50K.)
Objective Autopsy Report Process

- Unit “Master Diagnostician” prepare report
- Owning Unit Commander sign and forward to Battalion Commander
- Battalion Commander review and forward through chain of command to first GO
- ULLS/GCSS-A Clerk electronically submit report through GCSS-A to Sustainment Base and LOGSA
LOGSA provide Autopsy Report functionality until final GCSS-A solution is fielded - HQ AMC Tasking Jan 03

- Use component demand vs failures
- Establish average demand for high dollar items from historical data
- Compare monthly demand to historical average
- If out of tolerance, coordinate with PMs/MSCs to track actions initiated to review usage rates
- Coordinate with Diminishing Manufacturing Sources/Materiel Shortages (DMSMS) to track actions related to part obsolescence (if applicable)
Autopsy Report (Proposed)
SRS End State Metrics

- Autopsy Report will be Designed to Capture Major Assembly Failures and Root Cause of Failure for Components with FEDLOG Price Over $50K
- Users will be Field Commanders, Program Managers and Weapon System Managers

  **Measure 1:** Actual Major Assembly Failures Versus Failures Measured From LMP on a Monthly Basis
  - Interim Tracking will Use Demands From Existing STAMIS

<table>
<thead>
<tr>
<th>Green</th>
<th>Based on PM and MSC</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 24% Over</td>
<td>Coordination</td>
</tr>
<tr>
<td>Projected Failures</td>
<td>Projected</td>
</tr>
</tbody>
</table>

  **Measure 2:** Number of Major Assemblies That are Red for Three Months or More and have Corrective Action Initiated (I.E., Root Cause of Failure has Been Analyzed and Actions to Correct are Underway)
  - Interim Reporting Via Manual Feedback From PMS/Weapon System Mgrs
  - End State Reporting Via Configuration Management Process in Enterprise Product Data Management (ePDM)

<table>
<thead>
<tr>
<th>Green</th>
<th>Amber</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 90% Have “Fixes”</td>
<td>&gt; 80% but &lt; 90% Have</td>
</tr>
<tr>
<td>80 % Have Fixes Underway</td>
<td>&lt;</td>
</tr>
<tr>
<td></td>
<td>Fixes Underway</td>
</tr>
</tbody>
</table>
**Proposed Autopsy Report SRS End State Metrics - Metric 3**

- **Measure 3: Component Obsolescence** - Percentage of major assemblies that are no longer in production and that have actions underway to address the obsolescence issue. Components will be matched against the DOD Diminishing Manufacturing Sources and Materiel Shortages (DMSMS) Identification, Notification and Flagging Operation (INFO) system to determine obsolescence status and actions to fix.

<table>
<thead>
<tr>
<th><strong>Green</strong></th>
<th><strong>Amber</strong></th>
<th><strong>Red</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 90% Have “Fixes”</td>
<td>&gt; 80% but &lt; 90% Have</td>
<td>&lt;</td>
</tr>
<tr>
<td>80% Have Underway</td>
<td>Fixes Underway</td>
<td>Fixes Underway</td>
</tr>
<tr>
<td>Underway</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Draft Autopsy Projected Milestones

<table>
<thead>
<tr>
<th>Task Name</th>
<th>Completion Date</th>
</tr>
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<tbody>
<tr>
<td>Requirements Definition</td>
<td>11/21/03</td>
</tr>
<tr>
<td>Deliver Software Design Description</td>
<td>11/21/03</td>
</tr>
<tr>
<td>Deliver Software Test Plan</td>
<td>11/21/03</td>
</tr>
<tr>
<td>Requirements Analysis/System Design</td>
<td>01/02/04</td>
</tr>
<tr>
<td>Complete Code Generation</td>
<td>07/30/04</td>
</tr>
<tr>
<td>Final Development Environment Test</td>
<td>07/30/04</td>
</tr>
<tr>
<td>Complete End User Testing</td>
<td>08/06/04</td>
</tr>
<tr>
<td>Deliver Software Users Manual</td>
<td>08/20/04</td>
</tr>
<tr>
<td>Complete End-user Corrections</td>
<td>08/27/04</td>
</tr>
<tr>
<td>Move to Production</td>
<td>09/28/04</td>
</tr>
<tr>
<td>Final Product Delivery</td>
<td>09/30/04</td>
</tr>
</tbody>
</table>

All dates are tentative. Actual completion dates may change based on the date of project initiation and changes to the scope of the effort.
Metric 3 Action?

- CG AMC requested LOGSA develop 3rd metric for component obsolescence - Mar 03
- LOGSA presented draft metric to CG Jun 03. This included working an MOA for data transfer between LOGSA and Diminishing Manufacturing Sources and Material Shortage (DMSMS) information system. CG tasked LOGSA at briefing - How does Industry handle Component Obsolescence?
- LOGSA developed Information Paper subsequent to tasker and submitted it up the chain Aug 03.
- CG AMC tasking subsequent to the Info Paper - “Set up mtg w/ ASA(ALT) to discuss.”
Back Up
### Items Flagged for Metric 1

**Measure 1:** Actual Major Assembly Failures Versus Projected Failures Measured on a Monthly Basis

- Interim Tracking will Use Demands From Existing STAMIS
- End State will Use Failures Reported Via GCSS-A

<table>
<thead>
<tr>
<th>NIIN</th>
<th>Nomenclature</th>
<th>Price</th>
<th>SOS</th>
<th>Monthly Demands</th>
<th>Avg Demand</th>
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<tr>
<td>010922037</td>
<td>ENGINE,GAS TURBINE</td>
<td>$54,059</td>
<td>AMCOM-A</td>
<td>Feb 7, Mar 2, Apr 2</td>
<td>1.38</td>
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<tr>
<td>011873439</td>
<td>OPTICAL RELAY COLUM</td>
<td>$86,469</td>
<td>AMCOM-A</td>
<td>3, 4, 3</td>
<td>3</td>
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<tr>
<td>013621914</td>
<td>HEAD ASSEMBLY, TANK</td>
<td>$85,706</td>
<td>IOC</td>
<td>2, 4, 2</td>
<td>2</td>
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<tr>
<td>013815087</td>
<td>THERMAL IMAGING SYS</td>
<td>$71,461</td>
<td>IOC</td>
<td>4, 5, 4</td>
<td>4</td>
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<tr>
<td>013862786</td>
<td>ELECTRON TUBE</td>
<td>$136,460</td>
<td>CECOM</td>
<td>2, 2, 1</td>
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<tr>
<td>014067322</td>
<td>GENERATOR, TIME CODE</td>
<td>$113,090</td>
<td>CECOM</td>
<td>2, 2, 1</td>
<td>1</td>
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<tr>
<td>014092631</td>
<td>PDIU ASSEMBLY W-CONT</td>
<td>$50,992</td>
<td>IOC</td>
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<td>2</td>
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<tr>
<td>014113900</td>
<td>MICROWAVE ASSEMBLY</td>
<td>$496,977</td>
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<td>014174688</td>
<td>PROCESSOR, SYSTEM</td>
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<tr>
<td>014526354</td>
<td>POWER UNIT, DIESEL</td>
<td>$55,715</td>
<td>TACOM</td>
<td>8, 6, 5</td>
<td>4.00</td>
</tr>
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</table>

#### 13 MONTH HISTORY

**Green**
- < 24% Over
- Based on PM and MSC

**Red**
- ≥ 24%

### Measure 2: Projected Failures

- Interim Tracking will Use Demands From Existing STAMIS
- End State will Use Failures Reported Via GCSS-A

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<td>8, 6, 5</td>
<td>4.00</td>
</tr>
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</table>
Metric 1

- HET M1070 Diesel Power Unit 13 Month Demand History

**Red Rating Action List**

- **Upper Control**
- **Average Demand Rate**

- **24%**

- **NIIN 014526354**
- **Nomenclature POWER UNIT, DIESEL**
- **Price-$55,715**
## Metric 2

### Action List Report

**For M1A1 Repairable Components Over $50K**

<table>
<thead>
<tr>
<th>Item</th>
<th>MDS</th>
<th>FY</th>
<th>FSC</th>
<th>NIIN</th>
<th>CON REP</th>
<th>Nomenclature</th>
<th>SOS</th>
<th>MRC</th>
<th>ARI</th>
<th>MAT CAT</th>
<th>AMDF Unit Price</th>
<th>Fix Underway</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>M1A1</td>
<td>2003</td>
<td>2835</td>
<td>011787245</td>
<td>R</td>
<td>ENGINE MODULE REAR</td>
<td>AKZ</td>
<td>D</td>
<td>R</td>
<td>K21J E</td>
<td>185,701.00</td>
<td>YES</td>
<td>ECP WORK to Correct Maintance Producer</td>
</tr>
<tr>
<td>2</td>
<td>M1A1</td>
<td>2003</td>
<td>2835</td>
<td>012691234</td>
<td>R</td>
<td>ENGINE MODULE FORWA</td>
<td>AKZ</td>
<td>D</td>
<td>R</td>
<td>K21J E</td>
<td>213,805.00</td>
<td>NO</td>
<td>Just added to List(This Month)</td>
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<tr>
<td>3</td>
<td>M1A1</td>
<td>2003</td>
<td>2835</td>
<td>014087048</td>
<td>R</td>
<td>ENGINE,GAS TURBINE,</td>
<td>AKZ</td>
<td>D</td>
<td>R</td>
<td>K24J E</td>
<td>499,860.00</td>
<td>YES</td>
<td>under RECAP Program</td>
</tr>
<tr>
<td>4</td>
<td>M1A1</td>
<td>2003</td>
<td>2520</td>
<td>013259834</td>
<td>R</td>
<td>TRANSMISSION,HYDRAU</td>
<td>AKZ</td>
<td>H</td>
<td>R</td>
<td>K21J E</td>
<td>182,051.00</td>
<td>NO</td>
<td>Under Study for Root Cause REDEC Lead</td>
</tr>
<tr>
<td>5</td>
<td>M1A1</td>
<td>2003</td>
<td>1240</td>
<td>012939706</td>
<td>R</td>
<td>THERMAL RECEIVER WI</td>
<td>B14</td>
<td>D</td>
<td>E</td>
<td>M21J E</td>
<td>74,356.13</td>
<td>NO</td>
<td>Under Study for Root Cause CECOM Lead</td>
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<tr>
<td>6</td>
<td>M1A1</td>
<td>2003</td>
<td>1240</td>
<td>013800280</td>
<td>R</td>
<td>SIGHTUNIT</td>
<td>B14</td>
<td>D</td>
<td>R</td>
<td>M21J E</td>
<td>60,168.15</td>
<td>NO</td>
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<td>7</td>
<td>M1A1</td>
<td>2003</td>
<td>2835</td>
<td>013681537</td>
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<td>F</td>
<td>R</td>
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<td>501,677.00</td>
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<td>2520</td>
<td>012108795</td>
<td>R</td>
<td>TRANSMISSION,HYDRAU</td>
<td>AKZ</td>
<td>H</td>
<td>R</td>
<td>K21J E</td>
<td>182,051.00</td>
<td>YES</td>
<td>OEM provided new seals</td>
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<td>9</td>
<td>M1A1</td>
<td>2003</td>
<td>4320</td>
<td>013940257</td>
<td>R</td>
<td>PUMP UNIT,HYDRAULIC</td>
<td>AKZ</td>
<td>D</td>
<td>K21J E</td>
<td>65,708.26</td>
<td>YES</td>
<td></td>
<td>NEW Design changed vendar</td>
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<tr>
<td>10</td>
<td>M1A1</td>
<td>2003</td>
<td>1220</td>
<td>014552118</td>
<td>R</td>
<td>ELECTRONIC UNIT,FIR</td>
<td>B14</td>
<td>D</td>
<td>S</td>
<td>M21J W</td>
<td>124,880.00</td>
<td>YES</td>
<td>Installing redesign Cicurt Card</td>
</tr>
</tbody>
</table>

**Overall Rating of RED Below 80% Have Fixes Underway**
Metric 3 Notional Chart

LOGSA Input File - 742 Items with Unit Price > $50K

DMSMS database of obsolete items

DMSMS Output File to LOGSA

- List of the 742 LOGSA provided items found to be obsolete in DMSMS DB
- Any corresponding actions by MSC, PM, etc., currently in-place to address subset of obsolete items

LOGSA determines Metric 3 Rating based on output file - % of obsolete items with actions underway (>90% is Green).
Weapon System Managers, and LOGSA - 5TL25
Submit Autopsy Reports to Program Managers (PM), Weapon System Managers, and LOGSA - 5TL25
Submit Autopsy Reports to Program Managers (PM), Weapon System Managers, and LOGSA on all combat systems major assemble failures with a FEDLOG price of $50K or more.

INITIATIVE DESCRIPTION: Submit Autopsy Reports to Program Managers (PMs), Weapon System Mgrs, and LOGSA on all combat systems major assemble failures with a FEDLOG price of $50K or more.

MILESTONE MET

KEY MILESTONE ACTIONS  MILESTONE  YES  NO
a. DA G-4 issue policy guidance on Autopsy Report preparation and submission timelines to first GO in Chain of Command and the sustainment base following confirmation of a failure. 30 Jun 03  X
b. LOGSA and GCSS-A develop standardized automated Autopsy Report for GCSS-A inclusion by FY04. Milestones as follows:
   (1) Meet with GCSS-A to Discuss Autopsy Report Requirements 31 Mar 03  X
   (2) Program Interim Rqmts, Test, and Field Interim Solution 30 Sep 04
   (3) Develop integrated GCSS-A ERP solution. 31 May 06

FUNDING STATUS/ISSUES (Provide specifics including PEG and MDEP)

<table>
<thead>
<tr>
<th>Initiative LEAD</th>
<th>Initiative Lead</th>
<th>Initiative Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOGSA - Col Kurt Weidenthal II/AMXLS/(256) 955-0501</td>
<td>PM ALIS/Mike Verville</td>
<td></td>
</tr>
</tbody>
</table>

NEW  DELETE  COMPLETED  X

**NEW**

PEG: Sustain  MDEP: SOTH
FY 03 - $264K (Interim) – Internally Funded
FY 04 - $127K (Sustainment) – Not Funded
FY 05 - $127K (Sustainment) – Not Funded
FY 06 - $269K (Final) – Not Funded

**CURRENT ASSESSMENT**

<table>
<thead>
<tr>
<th>Action Not Met</th>
<th>Reason</th>
<th>Milestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milestone (a)</td>
<td>A mechanism for the field to prepare and submit an Autopsy Report will not be available until the final solution in GCSS-A, scheduled for 31 May 06. Policy guidance should be issued in a corresponding timeframe.</td>
<td>31 May 06</td>
</tr>
</tbody>
</table>

| Revised Milestone (a) | X  GREEN |

SOW to develop the interim solution has been completed. Contract negotiations will be finalized in Sep 03 and work will begin.

Estimated completion is Aug 04. This includes internal alpha testing and beta testing with selected external users (MSC, PM, and Field offices).

MOA has been established to exchange data with the Army's Diminishing Manufacturing Sources & Materiel Shortages system to track disposition of obsolete components over $50K.