Program Information

March 2012
Program Background

- 2012: DODM 5200.01, Volume 3, identifies the DoD Lock Program as Technical Authority
- 1995: NFESC Assumes Role as Program Director
- 1984: NCEL Designated as Technical Manager
- 1984: DoD Lock Program reassigned to Navy
- 1979: US Army assigned as lead agency for DoD Lock Program
- 1976: DoD Directive 3224.3 assigns responsibility for physical security to services

DoD Lock Program
The mission of the Department of Defense (DoD) Locks, Safes, Vaults, Seals, and Containers Program (DoD Lock Program) is providing management, operation, and logistics support functions for physical security equipment. This development, procurement, and integration support assures that Arms, Ammunition, & Explosives (AA&E) and National Security Information (NSI) are protected in accordance with DoD and component agency physical security storage requirements.
Sponsors

- Commander Naval Installations Command (CNIC)
- Naval Facilities Engineering Command (NAVFAC)
- DoD Physical Security Equipment Action Group (PSEAG)
- United States Army
- Defense Logistics Agency (DLA)
- Central Intelligence Agency (CIA)
- Director of National Intelligence (DNI)
- General Services Administration (GSA)
RDT&E Projects

- Internal Locking Device
- Storage Magazines
- Shipboard Security Systems
- Advanced Container Security Device (ACSD)
- Weapons Tracking Seal
The Next Generation of High Security Locking Systems

Existing 833 Padlock and NAPEC 0957 Hasp

Completed ILD Swinging Door Installation

DoD Lock Program
ILD Advantages

- Significantly increases attack resistance over all other approved high security locking systems.
- Easily installed as part of new construction or retrofit on existing magazines.
- Significantly improves key operation and reduces key breakage problems.
- Operates reliably in all weather / environmental conditions.
- Significantly reduces opening and securing times.
- Teflon anodized operating parts and body to maximize product life, and eliminate periodic lubrication.
ILD Applications

- Single Sliding Magazine Door ILD System
- Double Swinging Magazine Door ILD System
- Single Personnel Door ILD System (Armory)
- Universal Mount ILD System for Double Swinging Magazine Doors (Blast Doors)
- Double Sliding Magazine Door ILD System

DoD Lock Program
The typical magazine door is constructed of 3/8” plate steel.
LINE-X XS350 SPRAYED ON THIS SIDE

3/8" THICK STEEL PLATE TEST PANEL

3M 5200 ADHESIVE

1/4" THICK HEXOLOY CERAMIC TILE

3/4" X 3/16" 19W4 BAR GRATING

STEEL BAR WELDED TO FRAME

LINE-X XS350 SPRAYED ON THIS SIDE

MTP-07-1 TEST PANEL
Physical Security of Weapon Storage Magazines

Stops 1200 grain LSC
Smart Magazine

- **Lock / Boltwork / Door Sensors** - Sequential Operation
- **Electro-Mechanical Re-locker** - 1-Hour Delay; 2-Way Comms
- **Biometric Verification** - Reader Powers ILD Electronics; Electro-Mechanical Blocker in ILD; 4th Step
- **Summons Response** – Enhances MDARS Capability
- **Environmental Monitoring** – Temperature/Humidity Logging

**IEEE 802.15.4**

**Relay to Command Center**

**Trenched Infrastructure**

**DoD Lock Program**
Shipboard Security Systems

Capability
Develop GSA Approved shipboard security solutions, Federal specifications, and policy requirements to mitigate current security vulnerabilities aboard ship.

Service Requirements:
• Chief of Naval Operations (N09N2). Security requirements equivalent to GSA class 6 security containers.
• KPPs: Security containers that meet storage, shock, vibration, and mounting requirements.

Transition Sponsor: GSA, NAVSEA PMS 500
Policy Requirement Sponsor: CNO, OUSD(I)
**Advanced Container Security Device (ACSD)**

**Capability**
- The ACSD is being developed to address DHS requirements for cargo transport. A scaled down version will meet DoD physical security and anti-tamper requirements of cargo and ordnance transport and storage.

**Service Requirements:**
- War Zones – Stolen AA&E Containers

**Transition Sponsor:** CNIC/NWS Earle

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DoD Lock Program
Railcar IDS:
- **Mobile IDS in Boxcars**
  - Interior Volumetric Sensor
  - Doors & Side/Roof Breach
  - Low Nuisance Alarm
  - Battery Operated
- **Wireless Communications**
  - IEEE 802.15.4
  - Low Power, Robust, Secure
- **Customs & Border Protection (CBP) and DHS S&T**
  - Inter-Modal Container Security
  - Conveyance Security Device (CSD)
    - Door Opening – Electronic Seal
  - Advanced Container Security Device (ACSD)
    - Door Plus Breach
  - Magazine/Rail Car (MaRC) Communications Module (aka MATTS)
Field Support Structure

FIELD SUPPORT
Team Leader

FIELD SUPPORT
- HOTLINE
- WEBSITE
- DATABASE
- CRITICAL PARTS
- TRAINING
- IVR SYSTEM

PUBLICATIONS / CRITERIA
- SECURITY FACTS!
- TECH DATA SHEETS
- SEAL USERS' GUIDE
- GUIDANCE MANUALS
- DIRECTIVES
- SPECIFICATIONS

FIELD INVESTIGATIONS
- X-09 COMBO MOTOR
- X-09 GEAR FAILURE
- S&G 8077 EVALUATION
- MEDECO “BUMPING”
- ILD TOLERANCE
- PERSONNEL DOORS

TECH TRANSFER
- IACSE SEALS
- SEALS SYMPOSIUM
- FPED
- ASIS
- ASTM
- MANUFACTURERS

SUSTAINMENT / TESTING
- FF-L-2740 LOCKS
- HIGH SECURITY PADLOCKS
- INTERNAL LOCKING DEVICE (ILD)
- GSA CONTAINERS
- STORAGE MAGAZINES
- DOD LOCKING DEVICES
- TOOL TECHNOLOGY
Technical Support Hotline

Field Support Branch

Hotline

Version 11.2.0  Date 6-15-2011

Hotline User Guide

• 350+ support requests per month
• Toll-Free / DSN
• E-mail Support
• Customer Surveys
• Security Hardware Selection
• Directives & Guidance
• Parts Requests & Procurement
• Troubleshooting
• Training

DoD Lock Program
• 17,500+ Visitors per Month
• Technical Support
• 22,667 Downloads
• One-Stop Tool
Field Support Database

- Document Hotline Requests
- Track Open and Closed Cases
- Analyze Failure Trends
- Produce Monthly Reports

DoD Lock Program

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Physical Security Equipment Procurement Support</td>
<td>40%</td>
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<tr>
<td>Security Hardware Use and Selection</td>
<td>11%</td>
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<tr>
<td>Security Directives and Guidance</td>
<td>28%</td>
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<tr>
<td>Trouble-Shooting Combination Locks</td>
<td>6%</td>
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<tr>
<td>Part Requests for X-07/8/9 and CDX-07/8/9 Locks</td>
<td>4%</td>
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<tr>
<td>Provide Technical Instruction</td>
<td>6%</td>
</tr>
<tr>
<td>Other Request Topics</td>
<td>5%</td>
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Examples of Trend Analysis

DoD Lock Program

- **Problem (X-09)**
  - X-09 Failure to Open

- **Action**
  - Stopped Production
  - Investigation

- **Cause**
  - X-09 Combo Motors
    - Epoxy Not Curing Properly

- **Results**
  - Changed Epoxy
  - Changed QA Procedures

- **Problem (CDX-09)**
  - Inadvertent Opening

- **Action**
  - Immediate Site Visit
  - Investigation

- **Cause**
  - CDX-09 Combo Motor Gear
    - #1 Gear Tooth Breakage

- **Results**
  - Redesign Gear Tooth
  - Tested/Approved OCT 2006
Customer Support

- Army: 32%
- Navy / Marine Corp: 31%
- Air Force: 25%
- Other Agencies: 12%
Equipment Parts Support

Inventory

<table>
<thead>
<tr>
<th>Quantity Shipped</th>
<th>X-07 Materials</th>
<th>X-08 Materials</th>
<th>X-09 Materials</th>
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<tbody>
<tr>
<td></td>
<td>80</td>
<td>0</td>
<td>54</td>
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</tbody>
</table>

637 Parts Shipped FYTD
- Warranty Items
- Critical Spares
- DSCP Parts Support
- Container Manufacturer Support

Areas Supported

- **OCONUS**: 18%
- **CONUS**: 82%

Parts Shipped Immediately
- **OCONUS Shipments**: 1 Week
- **CONUS Shipments**: 1-2 Day Delivery Time
Field Support Training

- DoD Lock Program Overview
- FF-L-2740 Lock Retrofit Program
- Technical Information
- Administration
- Procurement
- Container Opening and Repairing
- Installation, Operation, and Troubleshooting
  - Kaba Mas X-07
  - Kaba Mas X-08
  - Kaba Mas X-09
  - S&G Model 2740
- On-Site Training
- CONUS Training
- OCONUS (Asia, Europe, Hawaii)
“Security Facts” Newsletter

- Quarterly Publication
- Developed by FSB
- 18,000+ Subscriptions
- Articles Include:
  - Government Directives
  - Manufacturer Products
  - Equipment Trouble-Shooting
  - Security Industry Conferences
  - Critical Issues
  - Current Events
Technical Data Sheets

Provides Detailed Security Information on:

- Equipment
- Products
- Programs
- Training
- Services

DoD Lock Program
Guidance Documents

Directives / Specifications

User Guide Updates

DoD Lock Program
Field Investigations

- X-09 Combo Motor Failures
- X-09 Gear Failures
- Medeco “Bumping” Evaluation
- S&G 8077 Vulnerability Assessment
- ILD Tolerance Study
- Personnel Doors
Technology Transfer: InterAgency Committee for Security Equipment

• Charter

• Process
  – Identify requirements for security equipment
  – Develop and maintain Federal performance specifications
  – Identify training requirements for service technicians
  – Review and approve commercial training curriculums
  – Identify and address failures in GSA approved equipment
  – Communicate / interact directly with manufacturers and training organizations (Off-site)

• DoD Lock Program Involvement
  – Chairman IACSE SEALS Subcommittee
  – Team Participation at meeting and on working groups

• Interagency Interaction
  – Benefits / Access

• Influence
Technology Transfer (cont.)

- Seals Symposiums
- Forced Protection Equipment Demonstration (FPED)
- American Society for Industrial Security (ASIS)
- ASTM International
- International Cargo Security Counsel (ICSC)
- Manufacturers Site Visits
- Working Groups (NSA, CIA, etc.)
Security Community Presence

DoD Lock Program
Sustainment Efforts

FF-L-2740 Combination Locks

Internal Locking Device

GSA Approved Containers

Other Locking Devices and Systems

DoD Lock Program
• The premier Testing Facility

• Test security equipment (locks, safes, vaults, & vault doors) submitted to the General Services Administration (GSA), by commercial vendors, for validation against published Federal specifications.

• All GSA approved security equipment is tested and approved through this program.

DoD Lock Program
• Conduct regular / reoccurring quality assurance (QA) testing of all GSA approved equipment.

• Maintain drawings, specification, and library samples of all GSA approved equipment.

• Respond to all reported operational / security deficiencies in GSA approved equipment.
Background
Over 200 security seals were available from DLA at the start of this project, however, none were tested by DoD to a federal specification. Selection was based upon performance testing completed by the manufacturers, or by testing laboratories selected and supported by user agencies on a case by case basis. Federal Specification FF-S-2738 was revised 30 March 1999 to require governmental testing. The Defense Transportation Regulation 4500.9-R Part II Cargo Movement requires that seals used on conveyances transporting AA&E be tested and approved by the DoD Lock Program. The Physical Security Equipment Action Group (PSEAG) has provided funding to establish a Security Seals Testing Laboratory within the DoD Lock Program.

Accomplishments to Date
- Purchased Test Equipment
  - Tensile Test Machine
  - Cold Box
- Fabricated Test Equipment
  - Various Fixture
  - Impact tester
• Participate on the IACSE Subcommittee.

• Provide Test support to other government agencies:
  - Services
    • Army
    • Navy
    • Air Force
    • Marine Corps
  - State Department
  - FBI
  - CIA
  - Homeland Security
  - DLA
Customer Feedback

• “This program is without question the anchor of security for thousands of security managers.” … Joint Cruise Missile Defense

• “The services that are provided through the FSP/DoD Newsletter, Web site, and technical publications is beyond reproach. If they can not solve the problem, they certainly have the resources to plug you into other avenues to solve the problem. This service is invaluable to the normal customer.”… NAS Patuxent River

• “Everything was handled extremely quickly and I received the requested items in less than two business days. Your team is doing a great job helping the "war fighters". Again a Bravo-Zulu to all.” …. SPAWARSYSCEN