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Security Benchmarks

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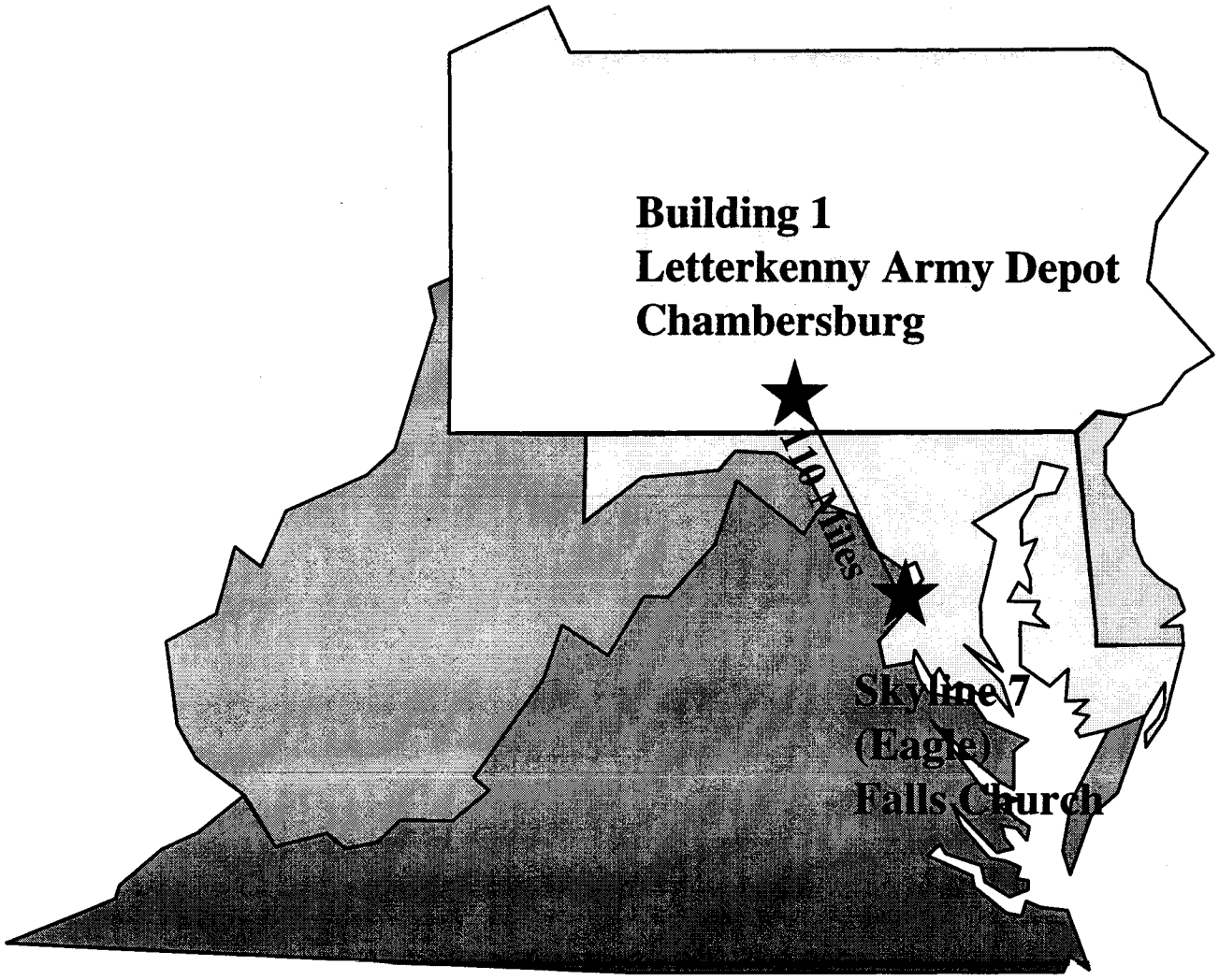
Where We Are

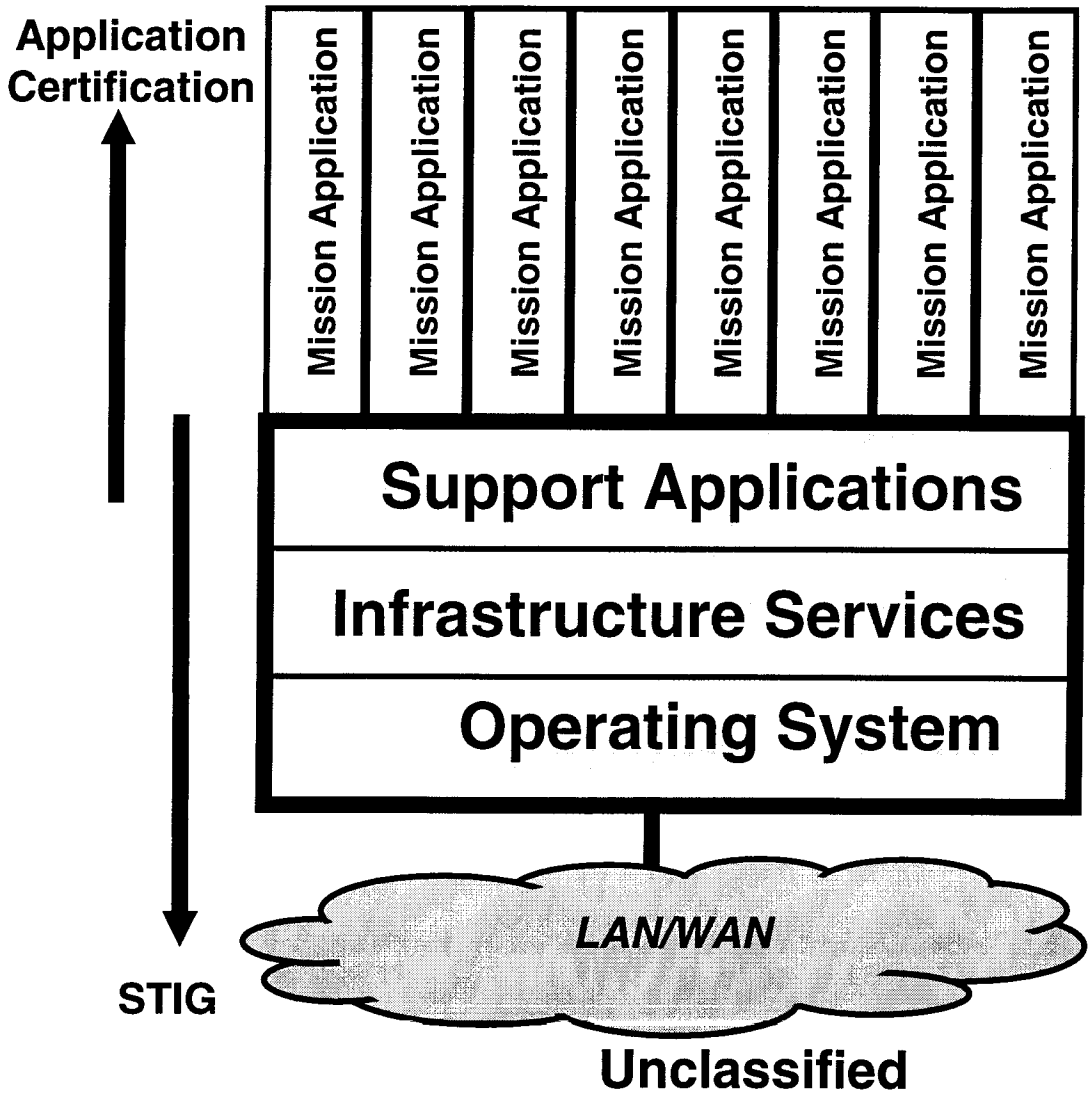

Building 1
Letterkenny Army Depot
Chambersburg
110 Miles
Skyline 7
(Eagle)
Falls Church

WHAT is a STIG?

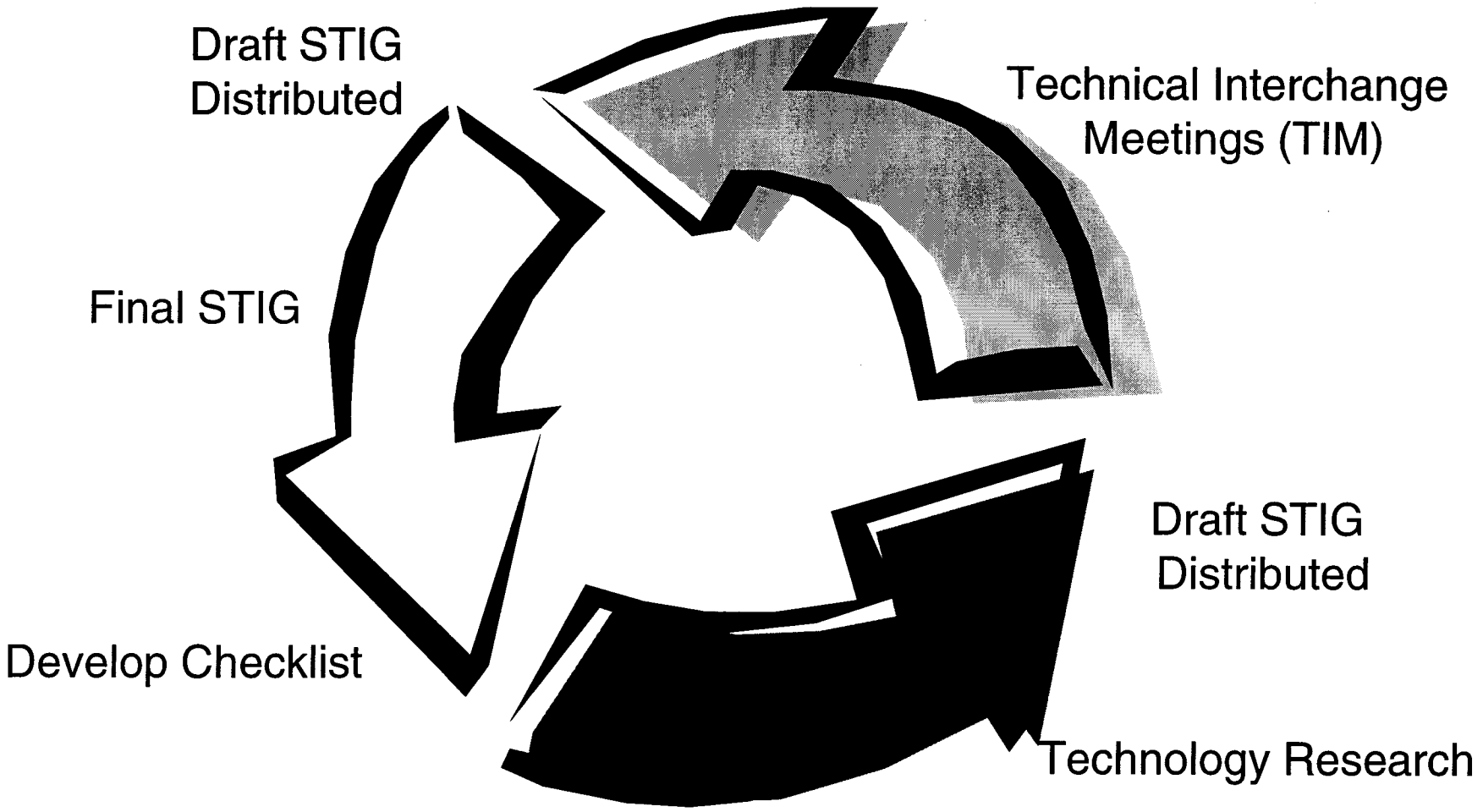
- **Security Technical Implementation Guide:**
  - A Compendium of Security Regulations and Best Practices for Securing an Operating System or Application Software
  - A Guide for Information Security
  - Use is Mandated in by DISA Instruction 630-230-31
  - Authorized DODD 8500.1
- **GOALS**
  - Intrusion Avoidance
  - Intrusion Detection
  - Response and Recovery
  - Security Implementation Guidance

STIG Scope

- Provides Standard, Secure environment for application development and operation
- Does not replace requirement for application security policy
- DISA is developing an Applications Developer Guide



STIG Lifecycle



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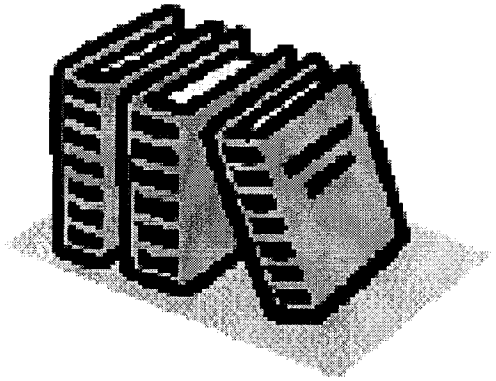
DISA Security Technical Implementation Guides (STIGs)

- **NETWORK/PERIMETER**
  - NIPRNet
  - Enclave
  - Network Infrastructure
  - Wireless
  - DNS
  - Secure Remote Computing
- **OPERATING SYSTEM**
  - OS 390 (MVS)
  - VM
  - LPAR
  - Unisys
  - Tandem UNIX
  - Novell
  - Win NT (NSA)
  - Win 2K (NSA)
  - Win XP
  - Win NT/2K Addendum
- **APPLICATION**
  - Database
  - Web Services
  - Desktop Applications
- **USER**
  - Security Handbook
- **AVAILABLE AT THE FOLLOWING WEB SITES**
  - https://iase.disa.mil
  - http://iase.disa.smil.mil
  - http://guides.ritchie.disa.mil (Uses PKI cert or userid/password)
    - Contact FSO Support Desk for access – fso_spt@ritchie.disa.mil



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Draft/Future STIGs

- **Current Drafts**
  - –Network Infrastructure
  - –OS/390
  - –Logical Partition (LPAR)
  - –Virtual Machine (VM)
  - –Tandem
  - –UNISYS
  - –Wireless
  - –Database
  - –Web
  - –Enclave
- **New STIGs in FY03**
  - –Voice Over IP (VOIP)
  - –Optical
  - –Biometrics
  - –MAC

DISA Implementation

- Gold Standard
  - Applied to STIGs
  - Checklist
  - Scripts
  - Tools
- Gold Standard Minimum Rqmt for Connection
- C&A Based on FULL STIG
- Gold Disk Tool
  - Gold Standard Prototypes
    - Windows 2000 and XP
    - Solaris
  - Production Gold Disk (FUTURE)

Issues

- **Target Audiences (Home User, Corporate, etc.)**
- **Gold Standard vs. FSO Gold Standard**
  - Specific DOD Issues
- **Scoring Issues from CIS Tool**
  - Example: /etc/inetd.conf (Tool – no, STIG – yes)
  - What is a Vulnerability?
- **Application Specific Issues**
  - Interoperability between Operating System and Application (I.e., Oracle) Security Settings
- **Testing of Benchmark**
  - Difficult to Find Participants

Lessons Learned

- **Settings still Break Things**
- **Not enough time to be as active as needed**
  - Raising issues to the Benchmark (CIS)
- **Contingencies for Specific Settings**

Benefits

- **Vendor involvement**
  - Success Story - Microsoft Security Guide
  - Providing Direction to Vendors
- **STIG Improvements**
  - Documentation of Setting Keystroke fixes
  - Technical Resources and Expertise
- **Windows**
  - Starting to Focus on Non-native Environments vs. Native W2K