

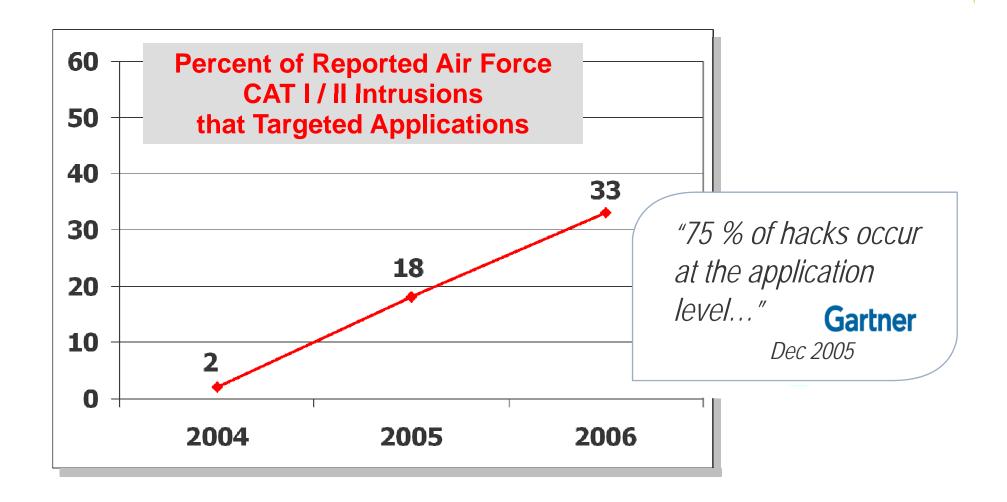
Developing an Application Security Strategy for Large Enterprise Systems

Overview

- Organizational Context
- Deployment Challenges and Assumptions
- Getting Down to Business



Security Wake-up Call





Security Wake-up Call

May 2005: Air Force Assignment Management System (AMS) Compromised

- Unauthorized individual accessed valid user account
- Initiated Password Reset
- Downloaded 33,000 personnel records



System Access Controls Complied with Published Guidance



Systems Development Profile

- Program Management Offices: 50+
- Software Developers: 600-900
- Automated Information Systems: 120+
- Programming Languages: 12+
- Source Lines of Code: 40M+



Quick Fix Countermeasures

Activated 554 ELSW Crisis Action Team

- Program Management Offices
- Security Analysts
- AFOSI Liaison to the AFNOSC-NOD

Top-to-Bottom Review of all Wing Apps

- Review Password Reset Procedures*
- Revalidate Privileges*
- Review of System Audit Logs*

*AFMAN 33-223 Requirements

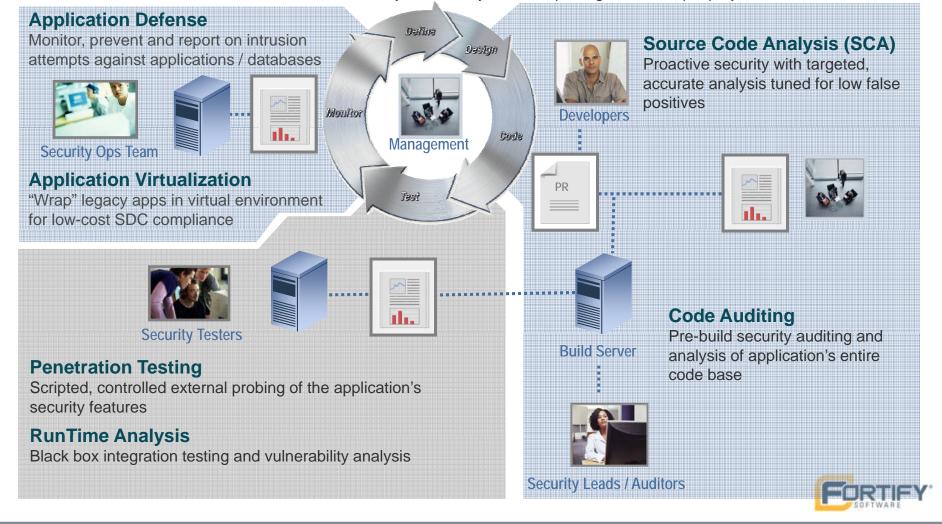
- Reduce Concurrent Log Ons
- Develop Long-term Security Strategy



Way Ahead: Securing the SDLC

Centralized Project Management

Vulnerability trend analysis and reporting; view multiple projects, all mission areas



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Challenges and Assumptions

- Challenges Some you can change, most you cannot; however, if necessary, you can work around all of them
 - Cultural
 - Financial
 - Political
 - Time Constraints (schedules)
 - Internal Policy
 - Personal

Assumptions

- Everyone above you in the food chain is on board
- You have at least some resources



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Getting Down to Business

Success is often the result of taking a misstep in the right direction.

-- Al Bernstein



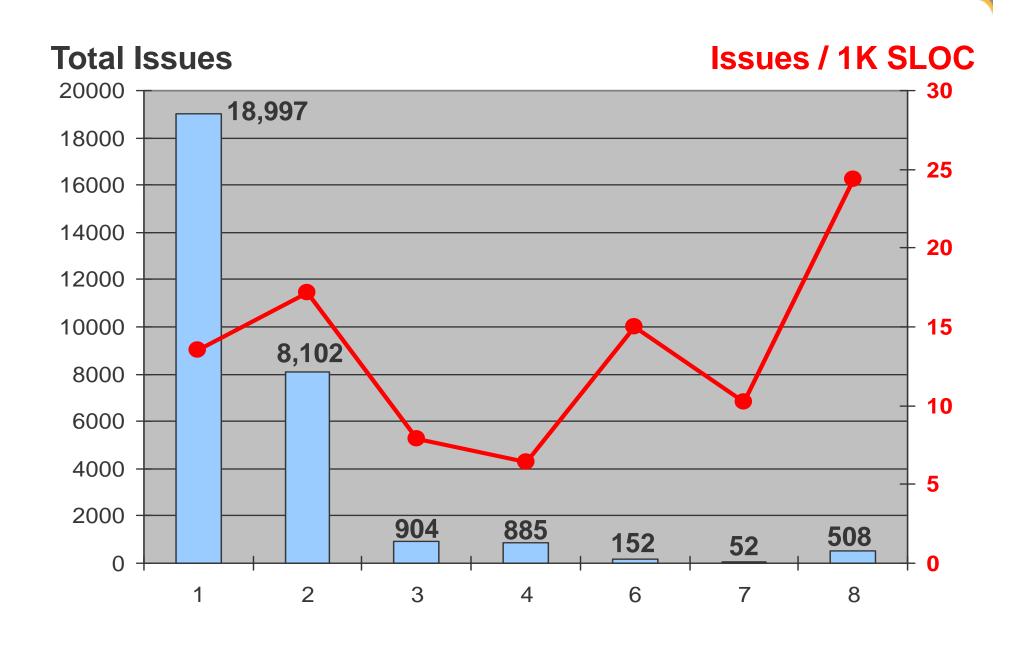
Getting Down to Business

- 1. Determine the Strategic Objective
- 2. Deal with the Challenges
- 3. Identify your Champions... and your Detractors
- 4. Sell Hard to Key Leaders
- 5. Sell Soft to Developers
- 6. Target Early Successes
- 7. Conduct Lessons Learned

Take Baby Steps... but do something!



Data are just data—don't be overwhelmed....





Questions?