46th Test Squadron Detachment 2

War-winning Capabilities…On Time, On Cost

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Overview

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This presentation is classified:

UNCLASSIFIED
Overview

War-winning Capabilities…On Time, On Cost

• Who I am
• What I can do for you
• What you can do for me
Mission
Reduce risk to cyberspace operations and acquisition by conducting responsive, timely, and economical test, range management, and operations support to the warfighter and mission partners.

Vision
Be the DoD center of excellence for cyberspace developmental testing, mission rehearsal, and test and training infrastructure, using state of the art philosophies.

Chain of Command
Air Force
AF Materiel Command
Air Force Test Center
96th Test Wing
96th Operations Group
46th Test Squadron

Key Information
-Mission Areas
- DT management, execution, and support
- Cyber warfare test and training range O&M
- Ops support – manpower and facilities

Organizations Supported
- AFLCMC C3I Infrastructure Division
- AFLCMC Cyber Warfare Systems Branch*
- Twenty Fourth Air Force*
- 67th Cyber Operations Group*
- 346th Test Squadron*
- AFRL Info Dominance Directorate
- Joint Partners

* Indicates current status
Cyber Test & Evaluation

War-winning Capabilities…On Time, On Cost

• Air Force’s Cyber Warfare Developmental Test Experts
  – Original mission supported Offensive Cyber testing
  – Evolved into full spectrum Cyber LDTO, to include Defensive weapon systems (CVA/H, CSCS, C3MS, AFINC, CDA, ACD)

• Expertise in testing software, hardware and network systems
  – “Cyber Test Pilot” certifies testers on Weapon Systems

• 6-Step Test Process ensures Test Discipline
  – Derived from aircraft testing
    I. Notification
    II. Concept Definition
    III. Test Plan Development
    IV. Test Execution
    V. Data Analysis & Reporting (Quicklook and/or Detailed)
    VI. Closeout (Lessons Learned & Archive)

• Combined DT/OT test force with 346th TS

Agile and scaleable test solutions for every size project
Cyber Range Operations
War-winning Capabilities…On Time, On Cost

• Manage/operate closed, secure multi-level security test and training Cyber Warfare range
• Range Capabilities
  – Rapidly reconfigurable/archivable virtualized environments
  – IP networks
  – Network infrastructure
  – Telephony (POTS/Mobile)
  – USAF Weapon Systems (limited)
  – Telephony training and mission rehearsal environment
• Joint Information Operations Range (JIOR) connectivity
• 4-5 annual exercises (RED FLAG, Weapon School, etc.)

Virtual & bare iron range solutions supporting cyber test and training
Modernization and Improvements

*War-winning Capabilities…On Time, On Cost*

- **Automation**
  - Statistical testing
    - Feed the Cyber JMEM process!

- **Cybersecurity**
  - Increased collaboration… with ourselves!
What can we do better?

* War-winning Capabilities…On Time, On Cost

- Sprint testing
- Test Jets
Let’s Play the Feud!

War-winning Capabilities…On Time, On Cost
Opinion that will make you mad

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Test

Training