



**International Test & Evaluation Association
Annual Symposium**



Distributed Test for CyberSecurity

Mr. Marty Arnwine

**Deputy Program Manager for Operations, Planning and Support
Joint Mission Environment Test Capability (JMETC)**

8 October, 2014

1330-1700



What is Distributed Testing?



A process, preferably persistent and continuous, for linking various geographically separated live, virtual, and constructive sites and capabilities together in a distributed environment, for use across the acquisition life cycle, to support and conduct the Test and Evaluation (T&E) of a system or systems-of-systems in a Joint and cyberspace environment.

A new way of thinking for many in the T&E and Cyber Security Community



Why Distributed Cyber T&E

EFFECTS

STOP!



Cyber Range



CCMD Hqrs/AOC

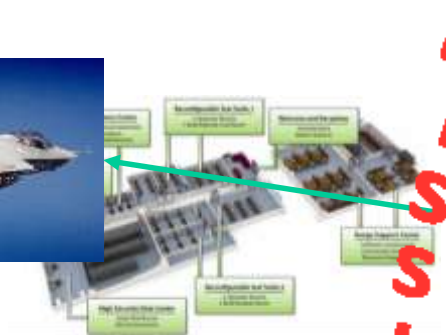


Attack Exploit Hunt Too Much

Why Distributed Cyber T&E



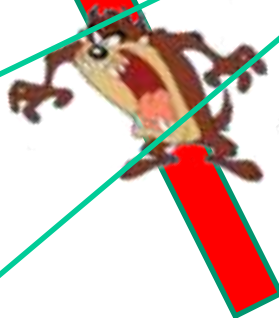
JTAC



CCMD Hqrs/AOC



MISSION EFFECTS



Red Team



Missions that are low density, high attack and non-kinetic effects. Red Teams as Kinetic Missions



Distributed Test for Cyber Security



- **1330-1400: Joint Mission Environment Test Capability: Enabling Distributed CyberSecurity Testing, AJ Pathmanathan, JMETC Lead Engineer**
- **1400-1430: Implement an Automation Culture: Prevention over Detection, Elfriede Dustin, Innovative Defense Technologies**
- **1430-1500: Distributed Threat Support to Cyber Security Testing- Current Efforts and Future Growth, Skip Tornquist, Tech Director, US Army Threat Systems Management Office (TSMO)**
- **1500-1530: BREAK**



Distributed Test for Cyber Security



- **1530-1600: CyberSecurity testing at the 46 Test Squadron, Maj Mike Christensen, 46 TS, Det-2/CC**
- **1600-1630: Distributed CyberSecurity Testing at the National Cyber Range, Lori Pridmore, National Cyber Range**
- **1630-1700: Joint Staff J6 DoD Enterprise Cyber Range Environment Command and Control Information Systems (DECRE C2 IS)**
 - **Rod Hallum - Lead Analyst for the Joint Staff J6 C4/Cyber Integration Branch supporting C2 and cyber events on the DECRE C2 IS**
 - **Bert Daniel - Assessment Team Lead for the Joint Staff J6 C4 Assessments Division**
 - **Wade Johnson - A Senior Analyst for the Joint Staff J6 Joint Deployable Analysis Team and Lead Analyst for the DECRE C2 IS Analysis Working Group**



Distributed Test for Cyber Security



1330-1400

**Joint Mission Environment Test Capability:
Enabling Distributed CyberSecurity Testing**

AJ Pathmanathan, JMETC Lead Engineer



Distributed Test for Cyber Security



1400-1430

**Implement an Automation Culture: Prevention
over Detection**

Elfriede Dustin, Innovative Defense Technologies



Distributed Test for Cyber Security



1430-1500

Distributed Threat Support to Cyber Security Testing- Current Efforts and Future Growth

Skip Tornquist, Tech Director, US Army Threat Systems Management Office (TSMO)



Distributed Test for Cyber Security



BREAK

PLEASE RETURN AT 1530



Distributed Test for Cyber Security



1530-1600

CyberSecurity Testing at the 46 Test Squadron

Maj Mike Christensen, 46 TS, Det-2/CC



Distributed Test for Cyber Security



1600-1630

**Distributed CyberSecurity Testing at the
National Cyber Range,**

Lori Pridmore, National Cyber Range



Distributed Test for Cyber Security



1630-1700

Joint Staff J6 DoD Enterprise Cyber Range Environment Command and Control Information Systems (DECRE C2 IS)

- **Rod Hallum - Lead Analyst for the Joint Staff J6 C4/Cyber Integration Branch supporting C2 and cyber events on the DECRE C2 IS**
- **Bert Daniel - Assessment Team Lead for the Joint Staff J6 C4 Assessments Division**
- **Wade Johnson - A Senior Analyst for the Joint Staff J6 Joint Deployable Analysis Team and Lead Analyst for the DECRE C2 IS Analysis Working Group**



Distributed Test for Cyber Security



QUESTIONS?