

DHS SCIENCE AND TECHNOLOGY

Test and Evaluation

The Key to Successful Acquisition Outcomes

6 October 2016



**Homeland
Security**

Science and Technology

Steve Hutchison

Director, Test and Evaluation

Capability Development support

Science and Technology Directorate

Leading Change in T&E

Department of Homeland Security

DHS Delegation Number: 10003

Revision Number: 00

Issue Date: 05/06/2009

DELEGATION TO THE DIRECTOR OF OPERATIONAL TEST AND EVALUATION

“The delegated authority herein does not extend to developmental test and evaluation.”

Leading Change in T&E

Department of Homeland Security

DHS Delegation Number: 10003

Revision Number: 01

Issue Date: 6/17/2016

DELEGATION TO THE DIRECTOR OF TEST AND EVALUATION

“The delegated authority extends to developmental testing and evaluation to appropriately inform Acquisition Decision Events 2 C/3 as negotiated and documented during development of the Test and Evaluation Master Plan.”

Leading Change in T&E

- MOU on Reciprocal Use of Test Facilities
 - Signed 26 October 2015
 - Expand capability set
 - Reduce costs
 - Reduce duplication
- MOA on Use of the National Cyber Range
 - Signed 21 July 2016
 - DHS use of NCR
 - DoD/DHS collaboration in cyber defense

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DEPARTMENT OF DEFENSE
AND
THE DEPARTMENT OF HOMELAND SECURITY
FOR
THE RECIPROCAL USE OF TEST FACILITIES

This is a Memorandum of Understanding (MOU) between the Department of Defense (DoD) and the Department of Homeland Security (DHS). When referred to collectively, the DoD and the DHS are referred to as the "Parties."

I. BACKGROUND

In the DHS's homeland security mission and the DoD's national security mission, test facilities and test ranges play a vital role. The ability to adequately test the capabilities used to defend the nation, both home and abroad, is of undeniable importance to the success of

MEMORANDUM OF AGREEMENT
BETWEEN
THE DEPARTMENT OF DEFENSE
AND
THE DEPARTMENT OF HOMELAND SECURITY
ON
USE OF THE NATIONAL CYBER RANGE

I. Background

Cyberspace is an operational domain. The U.S. Government relies on network-enabled capabilities to execute a diverse set of command and control, intelligence, logistics, management, and business functions. This reliance presents our adversaries with opportunities to exploit vulnerabilities and conduct disruptive and destructive cyber attacks. To protect the homeland and U.S. forces from a cyber attack, the Department of Homeland Security and Department of Defense have developed infrastructure and capabilities to detect, deter, protect against, respond to, and recover from a potential cyber attack. The National Cyber Range is a DoD resource that provides mission-tailored hi-fidelity cyber environments that enable independent and objective testing and evaluation of advanced cybersecurity capabilities.

II. Parties

This Memorandum of Agreement (MOA) is hereby entered into by and between the Department of Defense (DoD) and the Department of Homeland Security (DHS), hereinafter jointly referred to as the "Parties" and individually as a "Party."

III. Purpose

The purpose of this MOA is to formalize the relationship between DoD and DHS for the use of the National Cyber Range (NCR) and other cybersecurity test and evaluation (T&E) infrastructure assets controlled by the DoD Test Resource Management Center (TRMC). This MOA specifies the authorities, limitations, scope, roles and responsibilities, and duration of efforts to achieve the following goals:

- Enable DHS to use TRMC-controlled cybersecurity T&E infrastructure, including the NCR, on a fee-per-use basis in support of cybersecurity science and technology, research and development, test, evaluation, exercises, and training.
- Enable DHS and DoD to collaborate in the T&E of cybersecurity capabilities that satisfy the needs of both departments in the defense of the homeland, homeland security, and civil support missions.
- Promote standardization of cybersecurity T&E best practices and procedures.
- Provide a forum for interagency communication, personnel exchanges and information sharing.

I

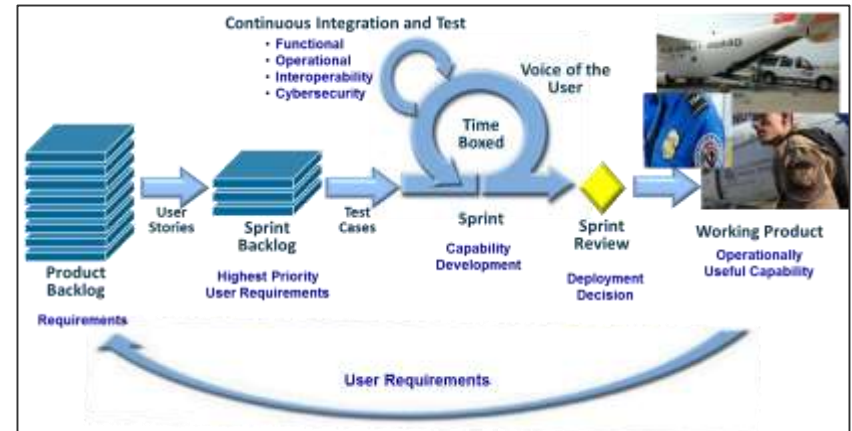
Leading Change in T&E

- USCGC Polar Ice Breaker Program
- International Engagement: Canada National Research Council Ice Lab



Leading Change in T&E

- DHS Agile Pilot Programs
 - Student Exchange Visitor Information System (ICE)
 - National Flood Insurance Program IT Phoenix (FEMA)
 - Technology Infrastructure Modernization (TSA)
 - Grants Management Modernization (FEMA)
 - Verification Modernization (USCIS)
- Operational Test Director Training
- Agile T&E WIPT
 - TEMP for Agile programs
 - Integrated Test Plans



Leading Change in T&E

- JIATF-South Support
- DHS S&T Detailee
 - Rotational developmental assignment
 - Improve communication and coordination in DHS R&D
- Joint Interagency - Cyber Enhanced Detection and Monitoring (JI-CEDM) Quick Reaction Test (QRT)
 - Relevant to DHS Southern Border and Approaches Campaign Plan



Leading Change in T&E

Other Initiatives:

- TEMP Guide
- T&E Management Guide
- Procedures for Operational Test and Evaluation of Cybersecurity
- Reliability
- Threat Assessments for Acquisition Programs
- Operational Test Director Course

Summary

T&E is the Key to Successful Acquisition Outcomes



Homeland Security

Science and Technology



USSS



USCG



TSA



ICE



FEMA



CBP



CIS