

DHS SCIENCE AND TECHNOLOGY

32nd Annual NDIA T&E Conference

Strategic T&E Partnerships



**Homeland
Security**

Science and Technology

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Science and Technology Directorate

Challenges

- There has never been a greater need than now to strive for efficient and effective use of government resources
 - Keep pace with the increasingly complex environment
 - Technology is changing by an order of magnitude every 10 years
 - Desire to deliver highly complex products and systems of systems at the very tip of technology development to the customer



Department of Homeland Security



Department of Homeland Security (DHS)

Mission: Our duties are wide-ranging and our goal is clear: a safer, more secure America, which is resilient against terrorism and other potential threats

1. Prevent Terrorism and Enhance Security
2. Secure and Manage our Borders
3. Enforce and Administer our Immigration Laws
4. Safeguard and Secure Cyberspace
5. Strengthen National Preparedness and Resilience

T&E is the Key to Delivering Enhanced Capabilities to Homeland Security Operators



USSS



USCG



TSA



ICE



FEMA



CBP



USCIS

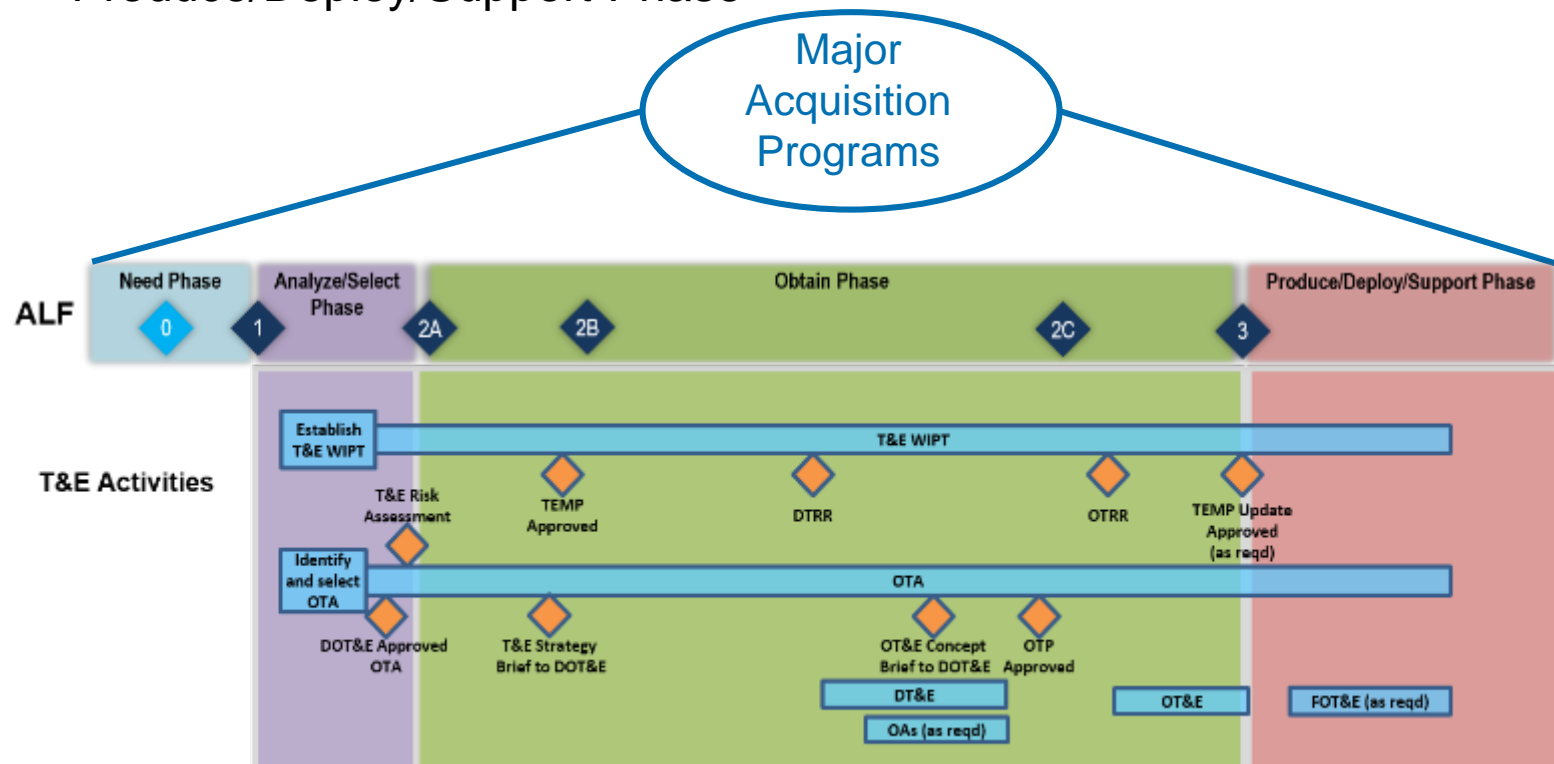
DHS Acquisition

Acquisition Lifecycle Framework (ALF)

- Need Phase
- Analyze/Select Phase
- Obtain Phase
- Produce/Deploy/Support Phase

Acquisition Programs

- Level 1: > \$1B
- Level 2: \$300M - \$1B
- Level 3: <\$300M



Office of Test and Evaluation (OTE)

Mission: Help programs succeed

Mandate: Title 6, Section 182; Homeland Security Act 2002
Delegation 10003, DHS Directives 102-01 and 026-06

- Serve as the DHS T&E Authority
- Principal advisor on T&E to the Secretary and Component Heads
- Provide independent T&E review and analysis
- Prescribe T&E policy and procedures
- Workforce development for T&E professionals

DoD / DHS Partnerships



*Reciprocal Use of Test
Facilities*



Reciprocal Use of Test Facilities

- DoD / DHS MOU on Reciprocal Use of Test Facilities

- Signed on October 26, 2015
- Expand capability set
- Reduce costs

- **Purpose:**

- DoD & DHS will pursue initiatives that share access to testing resources
- Provides basis for a reciprocal use agreement
- Works in the national interest
- Prevents unwarranted duplication of test infrastructure
- Increases the overall efficiency and effectiveness of DoD and DHS missions

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."

1. 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 each organization. Both Parties recognize the inherent benefits of having a reciprocal use agreement, thereby allowing for cost savings and prevention of unnecessary duplication in national testing infrastructure, and allowing use of their respective test and evaluation (T&E) ranges and facilities by the other.

2. AUTHORITIES:

The primary office of responsibility for this MOU from DoD will be the Under Secretary of Defense for Acquisition, Technology and Logistics (USD(AT&L)) with the Test Resource Management Center (TRMC) as the focal point.

The primary office of responsibility for this MOU from DHS will be the Under Secretary of Science and Technology (US S&T) with the Director, Capability Development Support as the focal point.

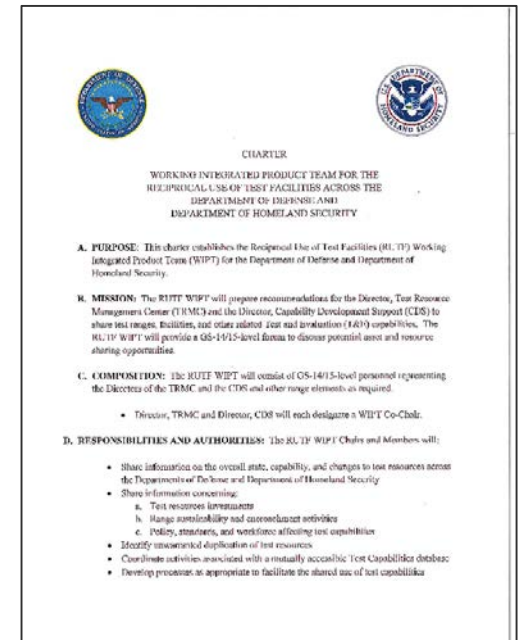
This MOU is authorized under the provisions of DoD 7000.14-R, "DoD Financial Management Regulation," Volume 11A; DoD Directive 3200.11, "Major Range and Test Facility Base (MRTFB)"; DoD Instruction 3200.18, "Management and Operation of the Major Range and Test Facility Base (MRTFB)"; US Code Title 6, Sec 182; DHS Directive 026-06, Test and Evaluation.

3. PURPOSE:

The purpose of this MOU is to formally acknowledge that DHS and DoD will pursue initiatives that share access (to facilitate cost savings and test schedule priorities) to testing resources through a reciprocal use agreement of test facilities, ranges, and other test capabilities. This MOU provides the basis for a reciprocal use agreement that works in the national interest, prevents unwarranted duplication of test infrastructure, and increases the overall efficiency and effectiveness of both DHS's homeland security and DoD's national security missions.

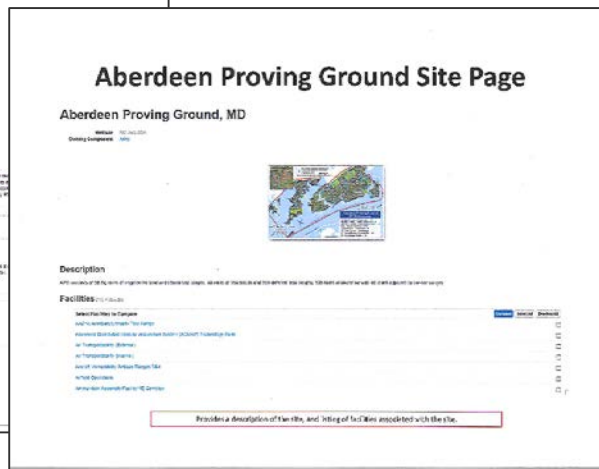
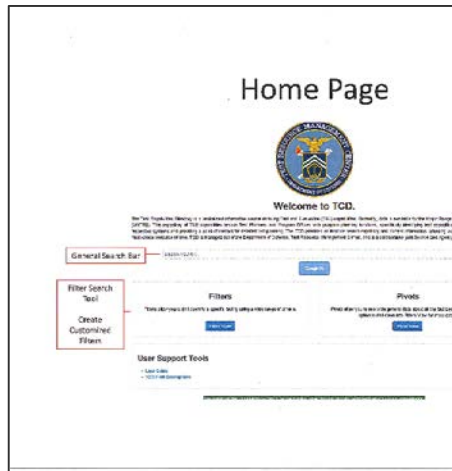
Reciprocal Use of Test Facilities

- DoD & DHS Test Resource Working IPT
 - Co-Chaired by DoD (TRMC) & DHS (Dir, T&E)
 - Prepare test resource recommendations for DoD / DHS T&E Leadership



Reciprocal Use of Test Facilities

- Collaborate on Test Capability Directory
 - DoD & DHS test resource capabilities

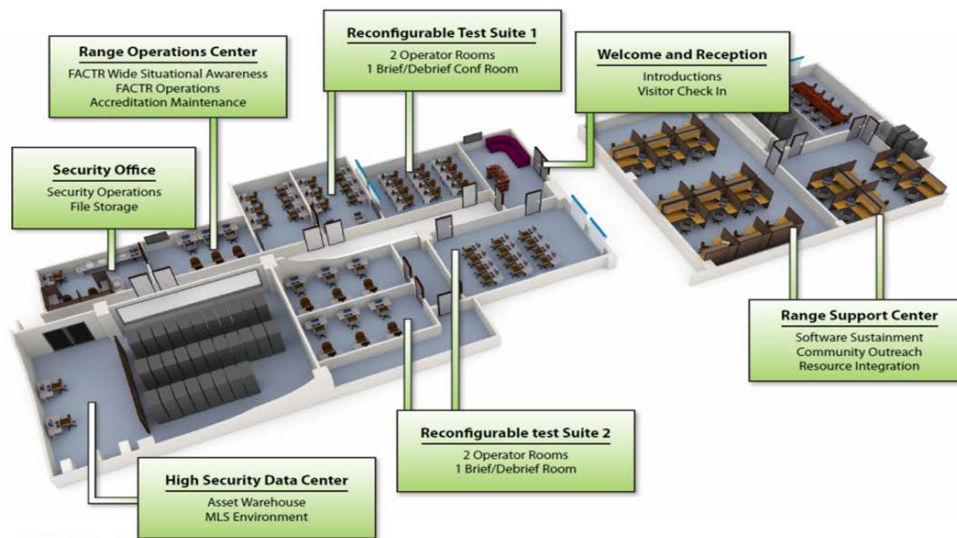


DHS Transportation Security Lab



Reciprocal Use of Test Facilities

- MOA on Use of the National Cyber Range
 - Signed on July 21, 2016
 - DoD/DHS collaboration in cyber defense



**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 high-fidelity cyber environments that enable independent and objective testing and evaluation of advanced cyberspace 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 cyberspace 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.

Reciprocal Use of Test Facilities

- Currently in coordination
 - U.S. Army, Aberdeen Test Center
 - Others as required





Homeland Security

Science and Technology