



***Rapid Access to Technical Information
Supporting Defense Acquisition***

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

DTIC: Your Key to Defense Technical Information

November 18, 2008

**Helen Q. Sherman
Director, User Services**

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Information for the Defense Community 

Report Documentation Page

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15. SUBJECT TERMS			
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a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	SAR
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How can DTIC assist the acquisition community?

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DTIC's Mission:

Provide essential, technical research, development, testing and evaluation (RDT&E) information rapidly, accurately and reliably to support our DoD customers' needs.

RDT&E is vital to Defense Acquisitions.



GAO Report: GA-08-467SP

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GAO

United States Government Accountability Office
Report to Congressional Committees

March 2008

DEFENSE ACQUISITIONS

Assessments of Selected Weapon Programs



G A O

Accountability • Integrity • Reliability

GAO-08-467SP



GAO's March 2008 Assessment

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- GAO's sixth annual assessment of selected weapon systems
- 72 programs assessed, most major defense acquisitions programs (MDAP) - those identified by DoD as requiring total research, development, test, & evaluation (RDT&E) of more than \$365M or \$2.19B*
- Programs selected for factors including dollar value, acquisition stage, & congressional interest



GAO's Analysis

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- Total acquisition costs for FY07 of major defense acquisition programs increased 26%
- **Total RDT&E costs for FY07 programs increased by 40% from first estimates**
- Current programs experiencing average delay of 21 months in delivering initial capabilities to the warfighter
- Results in warfighters operating legacy systems, finding alternatives to fill capability gaps, or going without capability



GAO Report: GAO-08-619

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GAO

United States Government Accountability Office

Report to the Committee on Armed
Services, U.S. Senate

July 2008

DEFENSE ACQUISITIONS

A Knowledge-Based
Funding Approach
Could Improve Major
Weapon System
Program Outcomes



GAO-08-619



GAO's July 2008 Assessment

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- Reason for study: DoD's cost to develop and procure major weapon systems to total \$1.6T. "Yet DoD programs often experience poor outcomes - like increased costs and delayed fielding of needed capabilities to the warfighter."
- Findings include: "DoD often underestimates development costs – due in part to a lack of knowledge and optimistic assumptions about requirements and critical technologies."



GAO Analysis

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GAO conducted a more detailed analysis for five programs:

1. Global Hawk
2. Joint Strike Fighter (JSF)
3. Future Combat System (FCS)
4. Warfighter Information Network-Tactical (WIN-T)
5. Multi-mission Maritime Aircraft (MMA)



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How can DTIC help you find technical information on these and other topics?



Technical Reports (TRs)

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Technical Report (or scientific report)

- **Describes the process, progress, or results of technical or scientific research, or explains the state of a technical or scientific research problem.**
- **Major source of scientific & technical information on a variety of projects**
e.g., DTIC's TRs have wide range from social, cultural issues to MRAPs.



Technical or Tech Reports

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- Published by organizations, often without commercial editing and printing
- Prepared for internal or wider distribution – with distribution determined by the controlling agency
- Reviewed by the originating organization but usually do not undergo the comprehensive peer review of scientific literature in journals.
- Prepared for sponsors of research projects.
e.g., Requirement of DoD-funded research.



Tech Reports

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- Published in hardcopy or electronic
e.g., DTIC's TRs are now submitted electronically, some with color graphics, and are available as PDFs
- Collected in a formal series and assigned an identifier or report number.
e.g., DTIC reports have AD #s
AD-123456, ADA, ADB, ADC



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AD Number: ADA477775
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Personal Author: Best, Jr, Richard A
Distribution Code: 01 - APPROVED FOR PUBLIC RELEASE
Report Classification: U - Unclassified
Source Code: 424371
- [View TR Citation](#) | [View Full Text pdf - 997 KB](#)
Title: Verification of Meteorological Data Reports from the RQ-4A Global Hawk...
AD Number: ADA422577
Corporate Author: AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING A...
Personal Author: Callis, Steven M
Distribution Code: 01 - APPROVED FOR PUBLIC RELEASE
Report Classification: U - Unclassified
Source Code: 439106
- [View TR Citation](#) | [View Full Text pdf - 914 KB](#)
Title: Spiral Development in Action: A Case Study of Spiral Development in th...
AD Number: ADA443447
Corporate Author: NAVAL POSTGRADUATE SCHOOL MONTEREY CA
Personal Author: Henning, Wade A Walter, Daniel T
Distribution Code: 01 - APPROVED FOR PUBLIC RELEASE
Report Classification: U - Unclassified
Source Code: 251450



Full Citation for DTIC Technical Report

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ADA422577

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Size: 997 KB

Handle / proxy Uri: <http://handle.dtic.mil/100.2/ADA422577>

Citation Status:

A - Active

Replaced by AD Number:

Data Not Available

Title:

Verification of Meteorological Data Reports from the RQ-4A Global Hawk Unmanned Aerial Vehicle

Fields and Groups :

040200 - Meteorology

010310 - Pilotless Aircraft

Corporate Author:

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING AND MANAGEMENT

Personal Author(s):

Callis, Steven M

Report Date:

01 Mar 2004

Media Count:

120 Pages(s)

Media Code:

Data Not Available

Organization Type:

F - AIR FORCE



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Accession Number:
ADA475851

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Size: 185 KB

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Citation Status:
A - Active

Replaced by AD Number:
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Title:
Preventing an Improvised Explosive Device (IED) Campaign in the United States

Fields and Groups :
190100 - Ammunition and Explosives
150607 - Unconventional Warfare

Corporate Author:
NAVAL POSTGRADUATE SCHOOL MON

Personal Author(s):
Wehri, Matthew T

Report Date:
01 Dec 2007

Media Count:
71 Pages(s)

Media Code:
Data Not Available

Organization Type:
N - NAVY AND MARINE CORPS

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Global Hawk Search Results

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Global Hawk: Air Force unmanned aircraft system – to provide intelligence, surveillance, & reconnaissance capabilities

- Sample Search: “global hawk” (more precise possible)
- **DTIC’s Public Technical Reports (TRs):** 26 results
- Authors include Air Force Institute of Technology, Naval Postgraduate School, Aeronautical Systems Center, IDA

- **DTIC’s Access Controlled TRs:** 194 reports, ranging from Aug 2008 Operational Assessment Rpt to 1996 Phase 1 Rpt
- Authors include AF Operational Test & Evaluation Center
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Size: 734 KB
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Citation Status:
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Replaced by AD Number:
Data Not Available

Title:
Balancing Government Risks with Contractor Incentives in Performance-Based Logistics Contracts

Fields and Groups :
150500 - Logistics, Military Facilities and Supplies
050100 - Administration and Management

Corporate Author:
AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH GRADUATE SCHOOL OF ENGINEERING AND MANAGEMENT

Personal Author(s):
Gardner, Christopher P

Report Date:
01 Mar 2008

Media Count:
110 Pages(s)

Media Code:
Data Not Available

Organization Type:
F - AIR FORCE





JSF: Joint Strike Fighter

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JSF: Joint Air Force, Navy, and Marine Corps program – to develop and field stealthy fighter aircraft to replace DoD’s aging fighter and attack aircraft

- Search: “joint strike fighter” or jsf
- **DTIC’s Public Technical Reports (TRs):** 120 results
- Authors: Air Force Institute of Technology, Air University, Naval Air Warfare Center, Rand
- **DTIC’s Access Controlled TRs:** 537 results, ranging from Oct 2008 to 1995.
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ADA476958

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Size: 449 KB

Handle / proxy Url: <http://handle.dtic.mil/100.2/ADA476958>

Citation Status:

A - Active

Replaced by AD Number:

Data Not Available

Title:

Early Lessons Learned from the Army's Future Combat Systems Program (FCS): Developing an Appropriate Contractual Arrangement with Industry, Establishing an Enabling Program Management Structure and Test Organization

Fields and Groups :

190300 - Combat Vehicles

150100 - Military Forces and Organizations

050100 - Administration and Management

Corporate Author:

NAVAL POSTGRADUATE SCHOOL MONTEREY CA GRADUATE SCHOOL OF BUSINESS AND PUBLIC POLICY

Personal Author(s):

Yakovac, Joseph

Report Date:

30 Sep 2007

Media Count:

45 Pages(s)

Media Code:

Data Not Available



FCS: Citation Includes Descriptors, Identifiers, & Abstract

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Descriptors:

GUERRILLA WARFARE, ZGUERRILLA WARFAREZ, MILITARY CAPABILITIES, ZMILITARY CAPABILITIESZ, MILITARY HISTORY, ZMILITARY HISTORYZ, MILITARY REQUIREMENTS, ZMILITARY REQUIREMENTSZ, ARMY, ZARMYZ, FORECASTING, ZFORECASTINGZ, RADIATION HARDENING, ZRADIATION HARDENINGZ, FIRST WORLD WAR, ZFIRST WORLD WARZ, INFORMATION WARFARE, ZINFORMATION WARFAREZ, KOREAN WAR, ZKOREAN WARZ, PERSIAN GULF WAR, ZPERSIAN GULF WARZ, SECOND WORLD WAR, ZSECOND WORLD WARZ, VIETNAM WAR, ZVIETNAM WARZ, SATELLITE ANTENNAS, ZSATELLITE ANTENNASZ, IRAQI WAR, ZIRAQI WARZ, COMBAT VEHICLES, ZCOMBAT VEHICLESZ, COMMUNICATIONS NETWORKS, ZCOMMUNICATIONS NETWORKSZ, THESES, ZTHESESZ, BRIGADE LEVEL ORGANIZATIONS, ZBRIGADE LEVEL ORGANIZATIONSZ, RUGGEDIZED EQUIPMENT, ZRUGGEDIZED EQUIPMENTZ

Identifiers:

COMBINED ARMS WARFARE, FCS(FUTURE COMBAT SYSTEMS), BCT(BRIGADE COMBAT TEAMS), IRREGULAR WARFARE, INFORMATION OPERATIONS, SATELLITE ANTENNAS, FUTURE WARFARE, CAPABILITY GAPS, ON-THE-MOVE COMMUNICATIONS, GAP CROSSING CAPABILITIES, GROUND LINE OF COMMUNICATION SUSTAINMENT, HARDENED VEHICLES, EXTREMIST GUERRILLA ARMY, HISTORICAL ANALYSIS

Abstract:

The U.S. Army's first Future Combat System (FCS) equipped Brigade Combat Team (BCT) becomes fully operational in 2015. Concern for the possibility of combined arms capability gaps between planned FCS capacities and those required to defeat the expected 2015 dominant threat model -- the Extremist Guerrilla Army -- led to a study of combined arms operations (CAW). The author explores the nature of CAW, and through the use of synchronization theory explains how synchronization is the key process by which units are able to plan and conduct the simultaneous employment of a combination of arms, thereby benefiting from their synergistic effects. He also reviews the main historical developments in CAW from World War I to the present Iraq War, including World War II, Korea, Vietnam, and the Gulf War. The thesis then identifies 13 combined arms "enabling capabilities" necessary for FCS BCT success in the complex and lethal 2015 operational environment. These capabilities will defeat the Extremist Guerrilla Army, maintain freedom of movement across the battlefield, and positively influence the local populace to support U.S. objectives. In addition, five FCS BCT capability shortfalls are identified. These are five areas in which FCS BCTs will not be fully capable in the operational environment of 2015. These areas are as follows: the need for ruggedized SATCOM antennas, the capability to allow units to stay connected to FCS voice and data information networks while on the move, the need for FCS vehicles to be hardened against electronic attack in an age of nuclear proliferation, the need for specialized engineering vehicles to support route clearance and gap crossing missions, and the need for the Army to organize company-sized Information Operations (IO) units to support FCS BCTs in the expectation of the enemy's heavy use of IO.

Distribution Limitation(s):

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Citation Status:
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Title:
Combined Arms Warfare in the 21st Century: Maximizing the Capability of U.S. Army Equipped Brigade Combat Teams to Conduct Combined Arms Operations

Fields and Groups :
150607 - Unconventional Warfare
050600 - Humanities and History

Corporate Author:
ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KS

Personal Author(s):
Reed, James W

Report Date:
13 Jun 2008

Media Count:
178 Pages(s)

Media Code:
Data Not Available

Organization Type:
A - ARMY

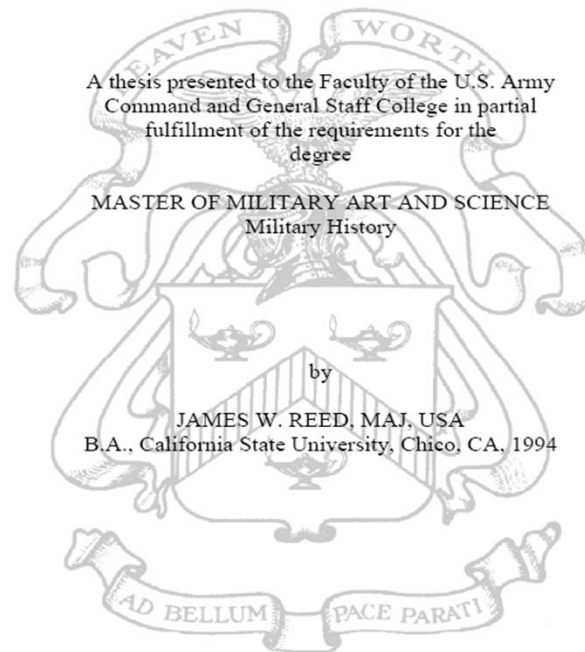
COMBINED ARMS WARFARE IN THE 21ST CENTURY: MAXIMIZING THE CAPABILITY OF U.S. ARMY FUTURE COMBAT SYSTEM EQUIPPED BRIGADE COMBAT TEAMS TO CONDUCT COMBINED ARMS OPERATIONS

A thesis presented to the Faculty of the U.S. Army Command and General Staff College in partial fulfillment of the requirements for the degree

MASTER OF MILITARY ART AND SCIENCE
Military History

by
JAMES W. REED, MAJ, USA
B.A., California State University, Chico, CA, 1994

Fort Leavenworth, Kansas
2008





FCS: Future Combat System

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FCS: Army program – to provide advanced, networked combat & sustainment systems, unmanned ground & air vehicles, and unattended sensors & munitions

- Search: “future combat system” or fcs
- **DTIC’s Public Technical Reports (TRs):** 48 results
- Authors: Army Research Institute, Naval Postgraduate School, Army Aviation & Missile Command (Redstone), Rand, Mitre, IDA
- **DTIC’s Access Controlled TRs:** 617 results, ranging from Sep 2008 to 1979
- Results for DTIC registered users include reports limited to DoD and Their Contractors - Export Control, U.S. Govt and Their Contractors – Export Control



What results would Google have?

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Initial Searches:

“global hawk” = 256,000 results

“global hawk” and “unmanned aircraft” = 44,300

“global hawk” and .mil = 26,900

“joint strike fighter” or jsf = 174,000

“future combat system” or fcs = 83,500

Thousands!

How much time do you have?



Search Results from Google

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

Analysis - Positives:

Sources for encyclopedic information or overview about the project:

e.g., www.jsf.mil (public);

<https://www.fcs.army.mil/> (*only accessible from DoD computers*)

Specifications, color images, and news releases available on commercial sites.

However,...



Search Results from Google

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Analysis – Negatives for Research:

Too many results to review and analyze properly.

Order of results based on commercial search engine's relevancy ranking (most popular?)

No consistency; order may vary.

Some results disappear or are difficult to find again.

Citations not always definitive and helpful for browsing wide variety of results.

Lack of authoritative sources; sources often unknown.

Unknown authors for Wikipedia, You-tube, blog entries, and personal Web sites.

Includes “underground” Web sites and subjective, opinionated articles.



...More Google Results

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Analysis – Negatives for Research:

Abundance of commercial sites.

Many superficial (or partial) news articles.

Some leads to fee-based commercial document delivery services.

Duplications within list.

Results include both separate pages & homepage of Web sites.

Documents often not dated.

Older documents not posted.

Public release only. Results mixed for an audience of all ages.

Some dead links or messages that content no longer available.

NO technical support or reference help.



Search Results from DTIC

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Analysis – Positives for Research:

- Targeted search results from a DoD database of more than 2 million Technical Reports.
- Three access levels for DTIC Technical Reports – Public, Access Controlled, & Classified on the SIPRNet.
- Documents with Distribution Markings for public, DoD, other federal agencies, contractors.
- In-depth reports from DoD scientific & technical research.
- Professional documents by reputable sources.
- Known Sources – Personal Author, Corporate Author, Source Code, Contract #.
- Report dates included.
- References to proceedings or other reports in series.



...More DTIC Results

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

Analysis – Positives for Research:

- Database with precision search capabilities.
- Capability for searching from simple to complex according to other factors, such as contract #, terms in abstract, etc.
- Flexibility to control order of results; e.g., by report date.
- Permanent collection and consistency in results; older documents retained as new documents are added.
- Ability to produce customized search results and bibliographies with specific fields.
- Technical support & reference assistance with your searches – DTIC phone #s & email addresses provided.
- **MORE: Ability to expand search for results from other DTIC databases & DoD resources.**



DTIC / Google Comparison 2004-2006

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

Topics:

Battle Space Awareness; Command and Control; Net Centric; Force Application; Force Protection; Focused Logistics

DTIC Resources searched:

- Private STINET – Unclassified, unlimited (U2); Unclassified, limited (UL) Technical Reports (TR) and Research Summaries (RS)
- Classified STINET – Classified TR and RS
- TEMS database of IAC holdings

Google Resources searched:

- Google, Google Scholar, Google Print
- Google Uncle Sam (added in 2006)



DTIC / Google Comparison

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Analysis of Results:

- **Information Type**
- **Database or Libraries**
- **Language**
- **Availability**
- **Source/Authority**
- **Classification**
- **Currency**
- **Relevance**



“DTIC is \$50M better than Google.”

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Most Significant Findings for DTIC Documents:

- **Source/Authority** – DTIC databases had more DoD S&T, DoD academic & other federal govt research.
- **Classification** – DTIC databases went beyond public information; over half of retrievals were limited access, classified, & export controlled results.
- **Currency** – DTIC databases had more current documents in the 4-year range.
- **Relevance** – DTIC database results had higher relevancy for the topics.



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DTIC Offers Assistance Beyond Google

Need Support?
Contact Us



DTIC® **Online**
Information for the Defense Community

www.dtic.mil



DTIC Offers Assistance

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How we accomplish our mission:

1. Centralized collection of DoD Resources
2. Innovative development of information systems
3. Information Security
4. IAC Research
5. Customer Support



DTIC Functions

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

1. **Centralized collection of DoD Resources**

Providing centralized operation of **scientific, technical and related defense information** services, databases, systems, or networks for the acquisition, organization, retrieval, and dissemination of information to support the Defense Community

Examples: Technical Reports Collection and many others; development of Web sites.



DTIC Functions

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

1. Centralized collection of DoD Resources
2. **Innovative development of information systems**

Developing and improving **DoD Scientific and Technical Information (STI) and Defense Information systems** through the continuous application of advanced, innovative processes, techniques and technologies for information discovery, analysis and dissemination

Examples: DTIC Online for Public, Access Controlled, and Classified; DoDTechipedia and DefenseSolutions.



DTIC Functions

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

1. Centralized collection of DoD Resources
2. Innovative development of information systems

3. **Information Security**

Assuring information **security and integrity** while improving customer access through the enhancement and application of the latest guidance and technologies for system security, user authentication, access control and single sign on

Examples: DTIC Registration System; DTIC's consistently high FISMA Score.

(Federal Information Security Management Act)



DTIC Functions

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

1. Centralized collection of DoD Resources
2. Innovative development of information systems
3. Information Security

4. IAC Research

Managing the **DoD Information Analysis Centers** program

Example: Assistance searching IAC databases; collaboration at conferences.



DTIC Functions

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

1. Centralized collection of DoD Resources
2. Innovative development of information systems
3. Information Security
4. IAC Research

5. Customer Support

Performing **outstanding Customer Service** including extensive user training and outreach programs.

Example: Free training for DTIC databases; outreach to Combatant Commands.



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DTIC Collection





Defense Technical Information Center

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

- **Central facility for collection and dissemination of scientific and technical information for the Department of Defense (DoD)**



DTIC Online
Information for the Defense Community

Home Registration DTIC A-Z Submit Documents Interest Areas

Search DoD Web Sites GO

S&T Resources Announcements Forms & Guides IACs Find It

Accession Number:
ADA475851

Full Text (pdf) Availability:
Size: 195 KB
Handle / proxy Url: <http://handle.dtic.mil/100.2/ADA475851>

Citation Status:
A - Active

Replaced by AD Number:
Data Not Available

Title:
Preventing an Improvised Explosive Device (IED) Terror Campaign in the United States

Fields and Groups :
190100 - Ammunition and Explosives
150607 - Unconventional Warfare

Corporate Author:
NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Personal Author(s):
Wehri, Matthew T

Report Date:
01 Dec 2007

Media Count:
71 Pages(s)

Media Code:
Data Not Available

Organization Type:
N - NAVY AND MARINE CORPS

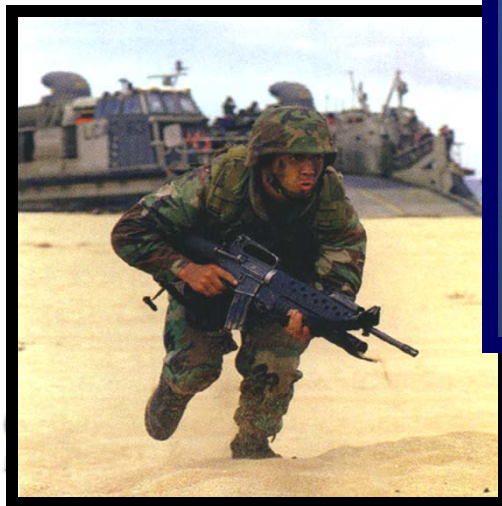




DTIC: Information for the Defense Community

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- Provider of information for Defense community
- Vital link in transfer of information for DoD



DTIC Online
Information for the Defense Community

Home Registration DTIC A-Z Submit Document

Search

S&T Resources Announcements Forms & Guides IACs

Accession Number:
ADA016437

Full Text (pdf) Availability:
Data Not Available

Citation Status:
A - Active

Replaced by AD Number:
Data Not Available

Title:
Laser Reliability Prediction.

Fields and Groups :
090300 - Lasers and Masers

Corporate Author:
MARTIN MARIETTA AEROSPACE ORLANDO FLA

Personal Author(s):
Gagner, T R
Kimball, E W
Selleck, R R





Librarians & Analysts Ready to Assist with Research

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

- **Researchers** of scientific, technical information
- **Intermediaries** for Research & Development and the Defense mission



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Information for the Defense Community

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Search

S&T Resources Announcements Forms & Guides IACs

Accession Number:
ADA016437

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Data Not Available

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Selleck, R R



Librarians & Analysts

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DTIC's Collection

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DTIC's Core Collection Includes More Than:

- 2 million **Technical Reports (TRs)** collected since WWII
- 309,000 ongoing & completed DoD **Research Summaries (RS)**
- 172,000 descriptions of **Independent Research & Development (IR&D) Projects** (Proprietary records of voluntarily reported private sector research - Available to DoD ONLY)
- 207,000 **Total Electronic Migration System (TEMS) database of IAC documents** from DTIC Information Analysis Centers (IACs)



Digitization for Online Access

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- **Technical Reports (TR) Collection**
 - Majority of new accessions are digital submissions
 - Older material digitized systematically and upon request for emergency situations throughout the world (e.g., mud slides in the Philippines)
- **Current Total of Technical Reports: 2,109,165**
- **Current TR Digital Holdings (full text):**
 - 299,538 unclassified, unlimited documents (public)
 - 191,501 unclassified, limited documents (controlled)
 - 13,071 classified documents on SIPRNet

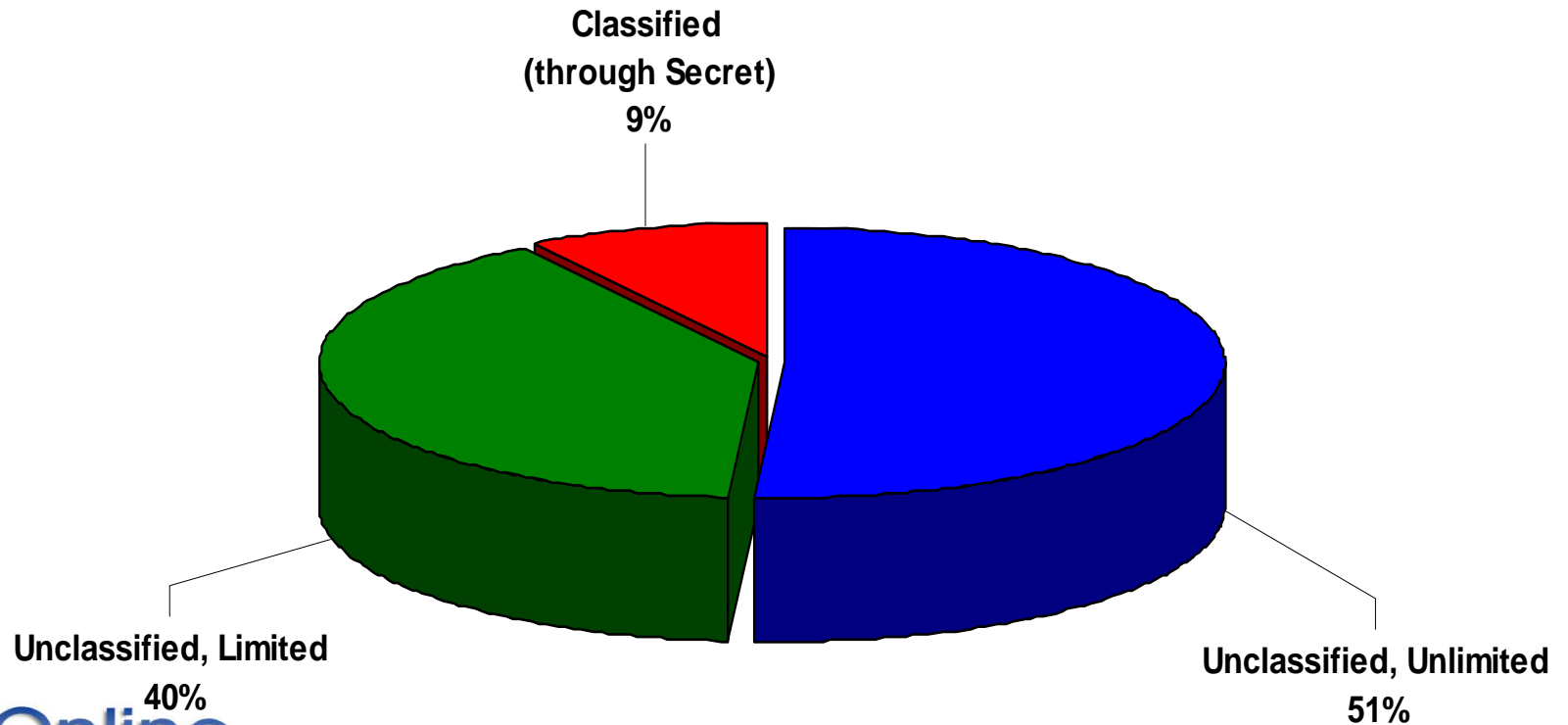
(11/10/08)



Security Categories of DTIC Collection

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- **Unclassified, Unlimited (Public)** 51%
- **Unclassified, Limited (Controlled access)** 40%
- **Classified (through Secret)** 9%





Content Repository

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Types of Information Collected:

- Technical reports
- Test results
- Studies and analyses
- Journal articles
- Proceedings
- Theses and dissertations
- Patent information
- Planning documents
- Command histories

Research summaries:

- Ongoing
- Completed
- Project details:
 - Objective
 - Approach
 - Progress
- Organizational details:
 - Funding data
 - Performing/funding agency/contractor



Contributors Are Sources of RDT&E and Users

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

- Defense Components
- DoD Laboratories
- DoD Contractors
- Federally Funded Research & Defense Centers (FFRDCs)
- Universities/Military Service Schools
- Small Business Innovation Research (SBIR) Awardees
- Other Federal Agencies and Their Contractors
- Foreign Governments
- NATO



Authorized Use of DTIC Collection

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- **Registration** determines individual access to controlled citations and documents.
- **Distribution statements** on documents are set by the controlling agencies.
- **Requests for Release of Limited Document** (DTIC Form 55) are submitted and determined by the controlling agencies.



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Searching the DTIC Collection





Technical Reports Are Key Sources of Information

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- Question: **How many gallons of gas has DoD used in the past year?**
- Sources:
- ***Report of the Defense Science Board Task Force on DoD Energy Strategy, "More Fight - Less Fuel".***
AD Number: **ADA477619** Corporate Author: DEFENSE SCIENCE BOARD WASHINGTON DC. Report Date: February 01, 2008.
Media: 136 Page(s)
- ***Defense Energy Support Center Fact Book FY 2007.***
AD Number: **ADA480861** Corporate Author: DEFENSE ENERGY SUPPORT CENTER FORT BELVOIR VA. Report Date: March 21, 2008
Media: 95 Page(s)



Source: DTIC Tech Report

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

Report of the Defense Science Board Task Force on DoD Energy Strategy

“More Fight – Less Fuel”



Bookmarks

Options ▾

- Foreword
- Executive Summary
- Chapter I:
Introduction
- Chapter II: DoD's
Energy Posture
 - 2.1 Introduction
 - 2.2 Petroleum
Supply and
Demand
 - 2.3 Electricity
 - 2.4 Global
Warming and Our
Energy Choices
- Chapter III:
Managing Fuel
Demand – A
Business Process
Re-Engineering
 - 3.1 Unfinished
Tasks from the
2001 Defense
Science Board



Research from Tech Report

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The Department of Defense is the largest single consumer of energy in the United States. In 2006, it spent \$13.6 billion to buy 110 million barrels of petroleum fuel (about 300,000 barrels of oil each day), and 3.8 billion kWh of electricity. -Feb 2008

CHAPTER II: DOD'S ENERGY POSTURE

2.1 Introduction

The Department of Defense is the largest single consumer of energy in the United States. In 2006, it spent \$13.6 billion to buy 110 million barrels of petroleum fuel (about 300,000 barrels of oil each day), and 3.8 billion kWh of electricity. This represents about 0.8% of total U.S. energy consumption and 78% of energy consumption by the Federal government. Buildings and facilities account for about 25% of the Department's total energy use. DoD occupies over 577,000 buildings and structures worth \$712 billion comprising more than 5,300 sites. In 2006, the Department spent over \$3.5 billion for energy to power fixed installations, and just over \$10 billion on fuel for combat and combat related systems. These figures exclude energy used by some contractors that performed "outsourced" DoD functions, but are as accurate as current accounting systems permit.



Plus Reference Assistance

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

- **Additional information from DTIC Reference Librarian:**

- 1 barrel = 42 U.S. gallons of oil = 19.5 U. S. gallons of gas.
- By international agreement a barrel of petroleum equals 42 U. S. [gallons](#), which is about 158.987 liters.



Additional Background

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- **Transforming the Way DOD Looks at Energy. An Approach to Establishing an Energy Strategy.**
- AD Number: ADA467003 Corporate Author: LOGISTICS MANAGEMENT INST (LMI) MCLEAN VA Personal Author: Crowley, Thomas D Corrie, Tanya D Diamond, David B Funk, Stuart D Hansen, Wilhelm A Stenhoff, Andrea D Swift, Daniel C Report Date: April 01, 2007 Media: 138
- This report has a section, Mobile Energy Use, which it defines as follows: "Mobility energy is the fuel used to power DoD weapons platforms, tactical equipment, and all other types of vehicles."
- **Supporting Worldwide Missions with DESC Energy Around the Globe. Defense Energy Support Center Fact Book, Fiscal Year 2005, Twenty-Eighth Edition.**
- AD Number: ADA472201 Corporate Author: DEFENSE ENERGY SUPPORT CENTER FORT BELVOIR VA Report Date: January 01, 2005 Media: 105 Page(s)



Technical Reports Can Save Time and Money

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- Question: **What type of tires work best on a specific military vehicle?**
- Source:
- **Land Vehicle Tire Qualification.**
- AD Number: **ADA479108** Corporate Author: ARMY RESEARCH DEVELOPMENT AND ENGINEERING COMMAND WARREN MI Report Date: February 26, 2008 Media: 34 Page(s)
- Abstract: (U) These briefing charts deal with the qualification for land vehicle tires. It discusses the classifications, the qualification process, vehicle qualification testing, replacement tires and requirements.



Tech Reports Range from Unclassified to Secret

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

- **Question: What tests on Interceptor Body Armor (IBA) are available?**
- *Title:* Thermal Manikin Evaluation of Passive and Active Cooling Garments to Improve Comfort of Military Body Armor
AD Number: ADA474474 *Corporate Author:* ARMY RESEARCH INST OF ENVIRONMENTAL MEDICINE NATICK MA BIOPHYSICS AND BIOMEDICAL MODELING DIV *Personal Author:* Endrusick, Thomas Gonzalez, Julio Berglund, Larry *Report Date:* August 01, 2007 *Media:* 5 *Page(s)* *Distribution Code:* 01 - APPROVED FOR PUBLIC RELEASE *Report Classification:* Unclassified *Source Code:* 441188 From the collection: Technical Reports
- Searching “interceptor body armor” resulted in 17 full-text documents (downloadable for free) on Private STINET (public to DoD Controlled) & one Secret on the SIPRNet.



DTIC TR Research Results

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Positives:

- Quick; easy to search database
- Current reports
- Relevant information
- Authoritative sources
- Many FREE full-text documents
- Reference assistance available



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Access to DTIC Collection and DoD Resources



www.dtic.mil



Why Register with DTIC?

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Access to DTIC Sites

- Research & Engineering (R&E) Portal
- Private STINET
- Classified STINET
- Total Electronic Migration System (TEMS)
- Classified TEMS



Access to Other Information

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Examples:

- Congressional Budget Queries
- Congressional Budget Data
- Research Development Test & Evaluation (RDT&E) Budget Data
- DoD RDT&E In-House Management Report



Eligibility to Register with DTIC

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

Who is eligible to register for DTIC services?

- Employees of a DoD organization (civilian & military), DoD contractor, or potential DoD contractor
- Employees of another U.S. Federal Government agency or U.S. Federal Government contractor
- Researchers at a university or college funded by DoD or a U.S. Federal Government agency
- Participants in the Small Business Innovation Research or Small Business Technology Transfer program (SBIR/STTR)
- Faculty members, staff members, or students of Historically Black Colleges & Universities (HBCU), Hispanic Serving Institutions (HSI), Tribal Colleges & Universities (TCU) & other Minority Institutions (MI)



Registration (one click away)

<http://www.dtic.mil>

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[Registration](#)

[DTIC A-Z](#)

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[Customer Support](#)

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DoD Sites & Collec

GO

[More Search Options](#)

i

[S&T Resources](#)

[Announcements](#)

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[IACs](#)

[Find It](#)

[About Us](#)

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Font size: A A

DTIC Registration

DTIC's Registration Team assists customers with:

- [Registration eligibility requirements](#)
- Problems with accessing DTIC Web services
- Upgrading the level of access needed to view required information

[Registration at DTIC](#)



Registration

[Eligibility](#)

[Registration FAQs](#)

[Contractor Employees](#)

[Government Employees](#)

[Security](#)

DTIC's products and services are available to:

- Authorized U.S. DoD/Military employees
- Authorized U.S. government employees
- Authorized U.S. government contractors, subcontractors and potential contractors

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Review Eligibility; Click on Web-based Application



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Font size: A A

[Registration at DTIC](#)



Who is eligible to register for DTIC® Services?

You are eligible to register if you:

- are an employee of a DoD organization (civilian and military including National Guard and Reserves on active duty), DoD contractor or potential DoD contractor
- are an employee of another U.S. Federal Government agency or U.S. Federal Government contractor
- are a [researcher of a university](#) or college funded by DoD or a U.S. Federal Government agency for conducting research throughout the U.S.
- are a participant in the Small Business Innovation Research or Small Business Technology Transfer ([SBIR/STTR](#)) program
- are a faculty member, staff member, or student of [Historically Black Colleges and Universities \(HBCU\)](#), [Hispanic Serving Institutions \(HSI\)](#), [Tribal Colleges and Universities \(TCU\)](#), and other [Minority Institutions \(MI\)](#)

Click [here](#) to register using the web-based application.

Registration

- [Eligibility](#)
- [Registration FAQs](#)
- [Contractor Employees](#)
- [Government Employees](#)
- [Security](#)



DTIC's Online Registration

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DTIC and DDR&E Registration Request

Access to the DTIC Services is limited to U.S. Department of Defense (DoD) and Government employees, and their contractors only.

In order to start the registration, we must first verify your email.

Please enter your email address:

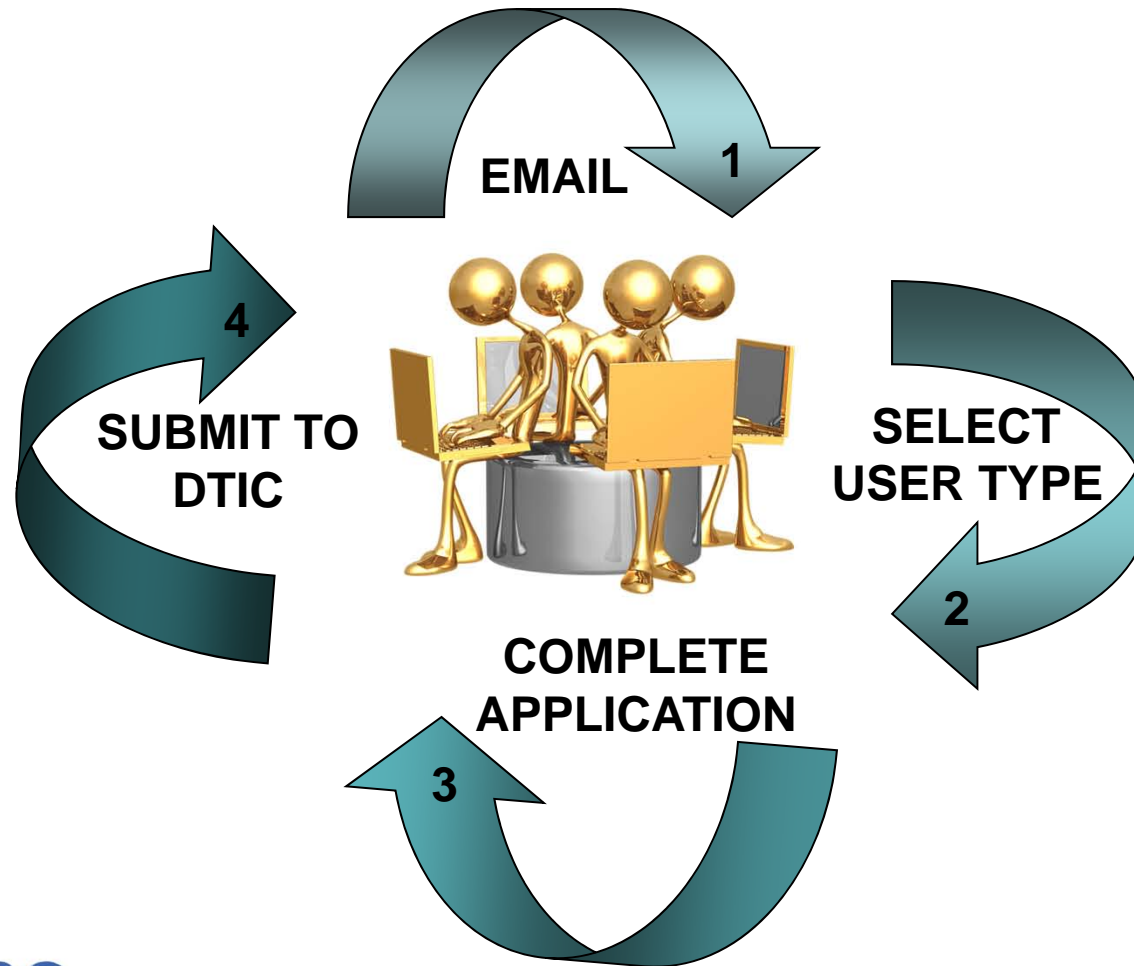
**If eligible,
proceed with
DTIC's online
registration.**



Online Registration Process

<https://register.dtic.mil/DTIC>

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium



DTIC and DDR&E Registration

DTIC[®] DEFENSE TECHNICAL INFORMATION CENTER

DTIC and DDR&E Registration Request Form for DoD Employee

Asterisk denotes required fields. [Help](#)

General Information (All applicants must complete this Section.)

Your userid will be formed by combining your last name with the first character of your first name + 4 digits that you choose.

*First Name: Middle Initial:
*Last Name: *4 Digits:
(choose any 4 numbers)
Grade / Military Title: Position Title:
*Email Address:

Occupation: Scientist
 Engineer
 Other

Password - Note: The password question and answer will overwrite any existing information that you may have for this account on the DTIC systems, but the password will remain the same as your existing one.

This password, question, and answer will overwrite any existing information that you may have for this account on the DTIC systems.

* Please enter the password you would like to use. The password must:

- be 9 characters or longer
- contain at least two numeric characters
- contain at least two capital letters
- contain at least two lower case letters
- contain at least two special character (e.g. "!")
- not contain last name

Desired Password: Re-type Password:

*Please select one of the questions below and provide an answer. You will be asked the same question if you forget your password and you must provide the same answer.

Password Reset Question: Password Reset Answer:

Question: Answer:

Telephone

*Commercial: DSN: Mobile:

Fax

Commercial: DSN:

Organization

*Organization/Company Name: Suborganization:
(Do not abbreviate or use acronyms)

Mail / Shipping Address (Do not use home address)

Office Symbol:
*Street Address 1:
Street Address 2:
Street Address 3:
*City: *State:
*Country: *Zip Code:

***Type of Access Required**

Unclassified/Unlimited (Public Release Only) Unclassified/Limited

Classified Access

Classified STINET/Classified Paper Documents

Email Access:

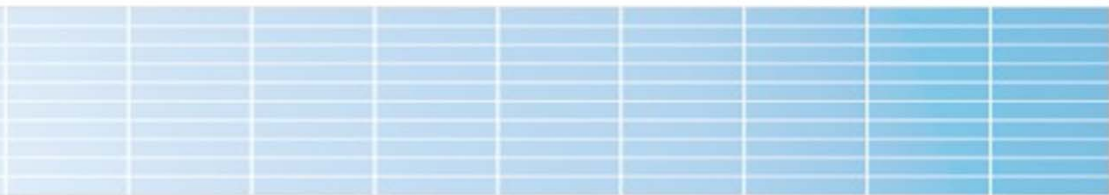
Be sure to have access to your email account for time-sensitive messages during the registration process.



Who Are Our Customers?

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

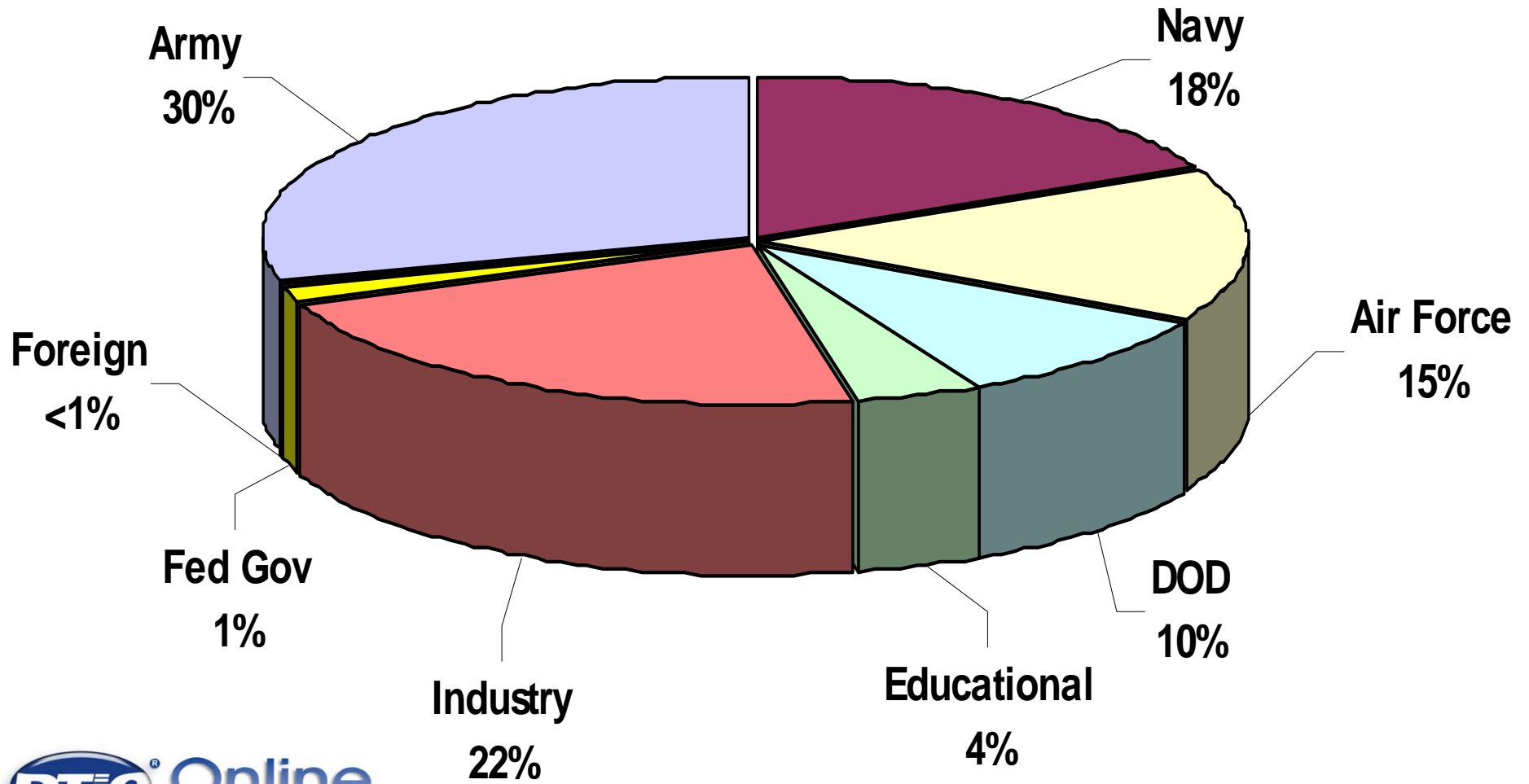
- **Engineers, scientists, program managers, policy analysts, planners and information specialists working for**
 - **DoD**
 - **Other U.S. Government Agencies and their contractors**
 - **Defense contractors** including:
 - Industry (e.g., Lockheed Martin, GE, Boeing, IBM)
 - FFRDCs (e.g., IDA: Institute of Defense Analyses)
 - Universities
 - Potential Defense Contractors
 - **Intelligence community** (e.g., CIA, NGA)
- **Foreign Governments** (e.g., negotiated agreements with Australia, Canada, France, Germany, Netherlands, Republic of Korea, U.K.)
- **Public access for military students, taxpayers, and allies**





DTIC Registered Users by Type

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Dissemination of DTIC Collection and DoD Resources



Change in Process for DTIC

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New Integrated Customer Interface

Purpose:

To provide for the integrated design, development, deployment, coordination, implementation and oversight of a robust information delivery infrastructure and accompanying support services

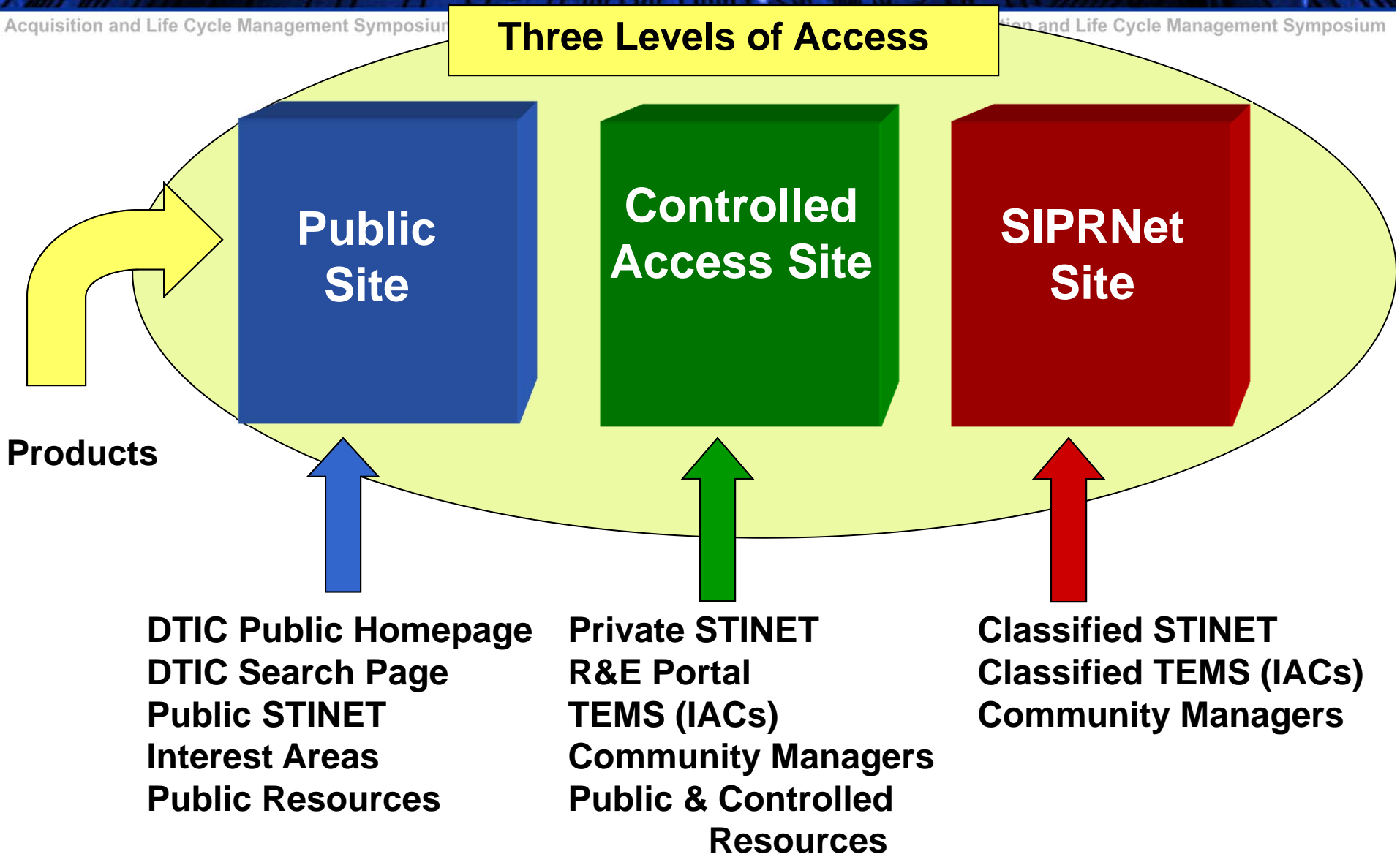


DTIC Online

Acquisition and Life Cycle Management Symposium

Acquisition and Life Cycle Management Symposium

Three Levels of Access





DTIC Online: Uses STINET Color Pattern

Acquisition and Life Cycle Management Symposium Acquisition and Life C

STINET (Scientific & Technical Information Network): Access to the DTIC Collections – Public, Controlled, and Classified



STINET
(Scientific & Technical Information Network)

Home Collections Find It Contact Us Help

About STINET The Defense [Technical Information Center \(DTIC\)](#)'s Scientific and Technical Information Network (STINET) Service helps the DOD community access pertinent scientific and technical information to meet mission needs more effectively.

What's New

DTIC Collections

Special Collections

MultiSearch

Journals

Other Resources

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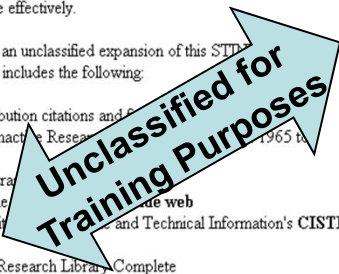
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The Joint Forces Staff College Library is a specialized military library, focusing on research in joint and multinational operations, military history and naval science, operational warfare, and operations other than war. Library staff members regularly scan the weekly news magazines, monthly and bimonthly journals such as Military Review, Armed Forces Journal, and quarterly publications, including NATO's Nations and Partners for Peace, RUSI Journal, and the Naval War College Review.

AULIMP (Air University Library)

The Air University Library's Index to Military Periodicals is a subject index to significant articles, news items, and editorials from English language military and aeronautical periodicals. The Index contains citations since 1988 and is updated continuously.

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Graduate School of The Ohio State University

By
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The Ohio State University
2005

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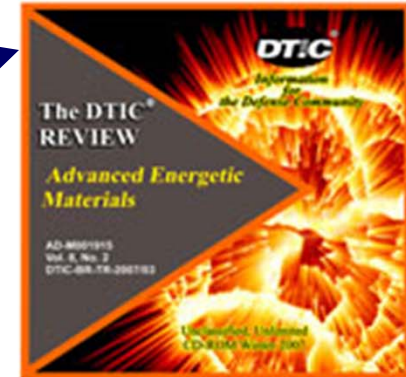
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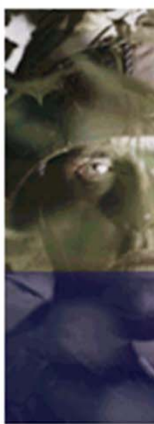


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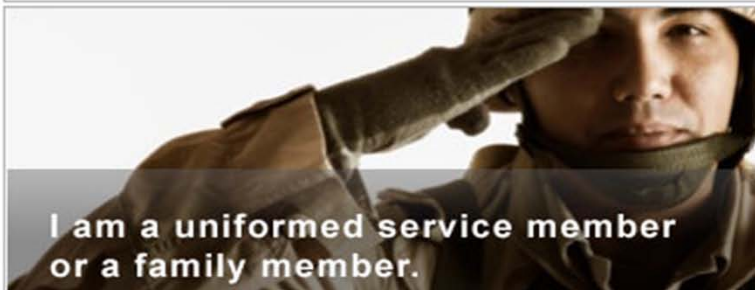
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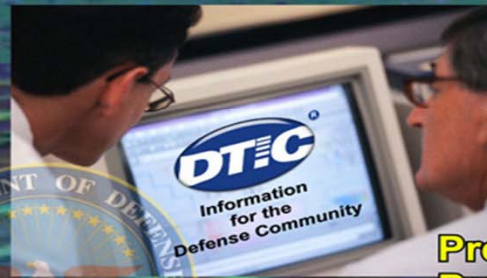
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Point of Contact

Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium Acquisition and Life Cycle Management Symposium

Ms. Helen Q. Sherman

Director

User Services Directorate

Defense Technical Information Center

hsherman@dtic.mil

<http://www.dtic.mil>



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