



# Report Documentation Page

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# **DTIC: Your Key to DoD Scientific & Technical Information**

**R. Paul Ryan  
Administrator  
Defense Technical Information Center**

**EUCOM & AFRICOM S&T Conference  
Stuttgart, Germany  
June 2009**

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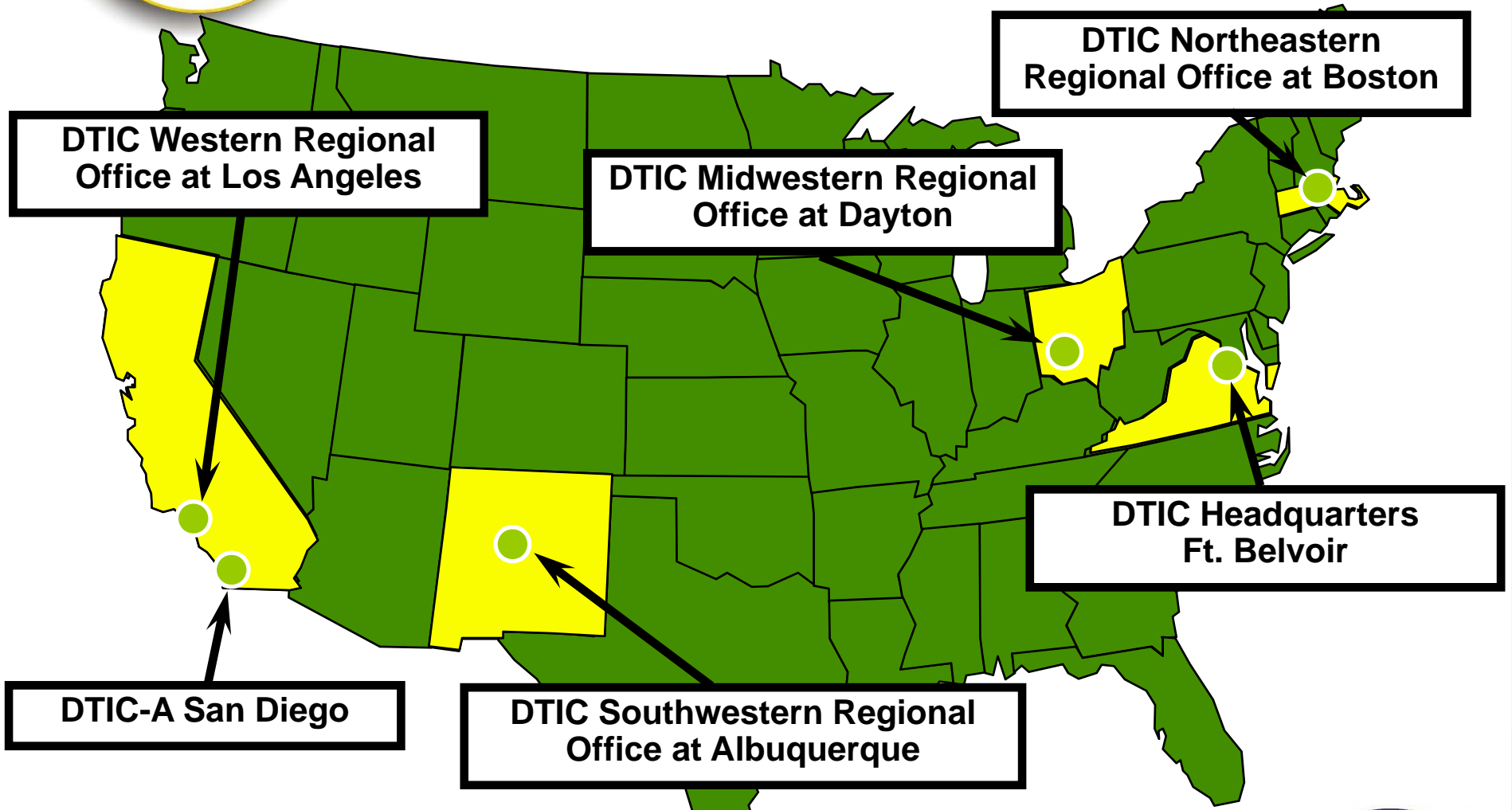
*The Defense Technical Information Center*



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# Locations





# Why Contact DTIC for Your DoD Scientific & Technical Information?



# DTIC's Mission

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



# How We Accomplish Our Mission

- Single point of access for Defense Scientific and Technical Information (STI)
- Centralized collection and secondary dissemination of Scientific and Technical Information
- Controlled access to information products and networks
- Balance of scientific community's need for open access to information and DoD's need for limitations on access
- Management of DoD / DTIC Information Analysis Centers
- Hosting of Web sites for major components of DoD
- Focal point for the Office of the Secretary of Defense (OSD) policy relating to STI





# Why Register with DTIC?

## **DTIC:**

- Leverages the multi-billion dollar investment in DoD research and engineering
- Prevents unnecessary or redundant research
- Gets scientific and technical information into the hands of the right people in the Defense community at the right time
- Enables the conversion of completed research into the production of mature technology to support the warfighter



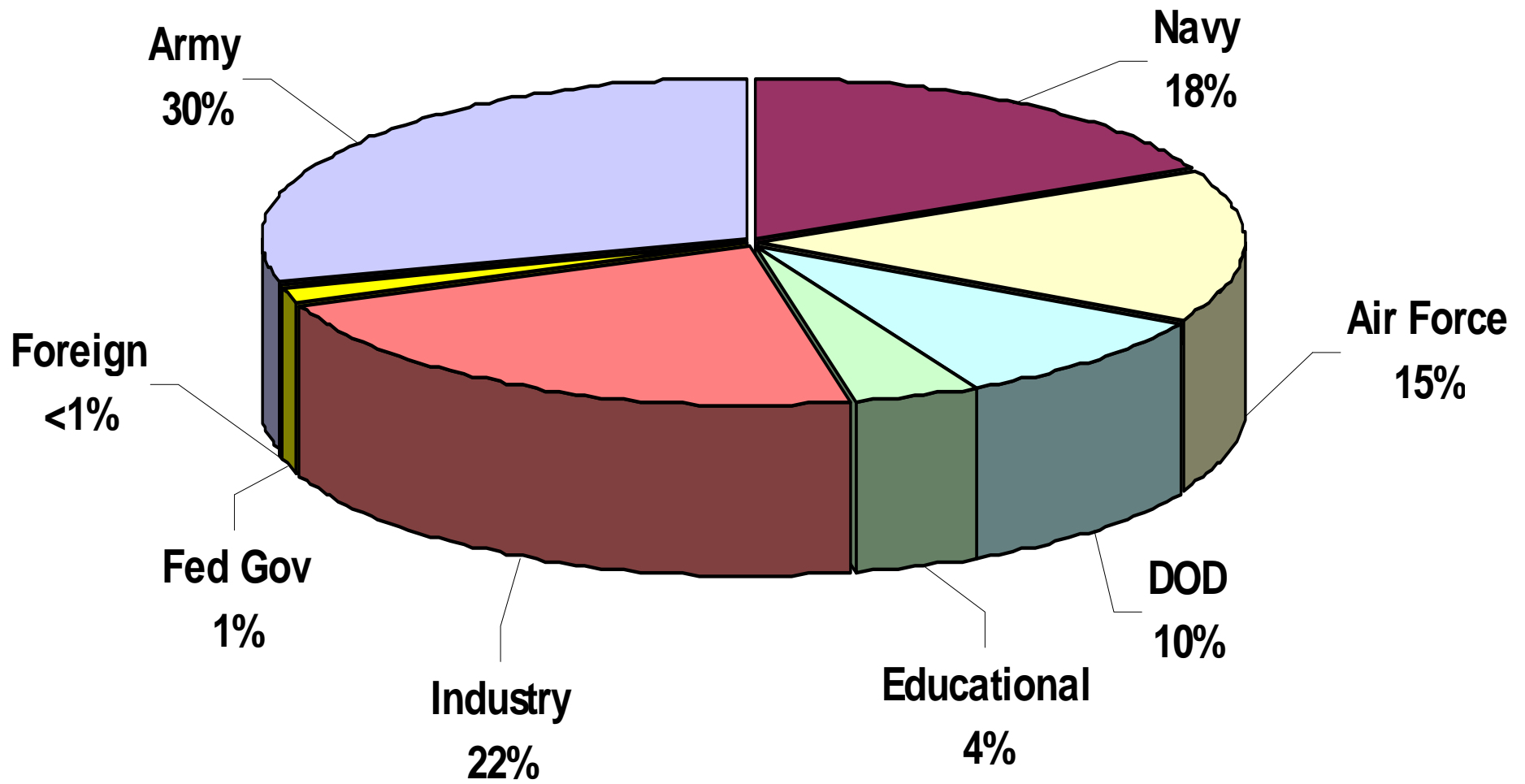
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## *Who is eligible to register for DTIC services?*

- 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)
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- 312,000 ongoing & completed DoD Research Summaries (RS)
- 173,000 descriptions of Independent Research & Development (IR&D) Projects
- 8,400 Defense Technology Transfer Information System (DTTIS)
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**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

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**Descriptors:**

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**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.

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**Source Code:**

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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

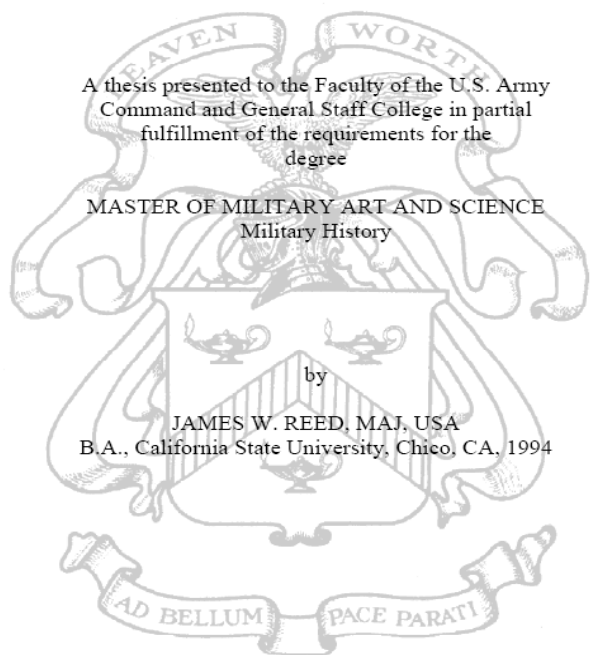
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13 Jun 2008

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178 Pages(s)

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**Organization Type:**  
A - ARMY

## COMBINED ARMS WARFARE IN THE 21<sup>ST</sup> 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





# Digitization for Online Access and Free Downloads of Documents

- **Technical Reports (TR) Collection**
  - Majority of new accessions are digital submissions
  - Older material digitized systematically and upon request by warfighters and for emergency situations throughout the world (e.g., mud slides in the Philippines)
- **Current Digital (Full-Text) Holdings:**
  - More than **525,000 unclassified, unlimited (public) and unclassified, limited (controlled)** full-text Technical Reports releasable to DoD
  - More than **13,000 classified full-text** Technical Reports available on SIPRNet
  - More than **320,000 full-text documents** from DTIC Information Analysis Centers (IACs)
  - Accessible to DTIC registered users



# Content Repository

## Sources of Content:

- Defense Components
- DoD Laboratories
- DoD Contractors
- Federally Funded R&D Centers
- Universities/Military Service Schools
- SBIR Awardees
- Other Federal Agencies and their Contractors
- Foreign Governments
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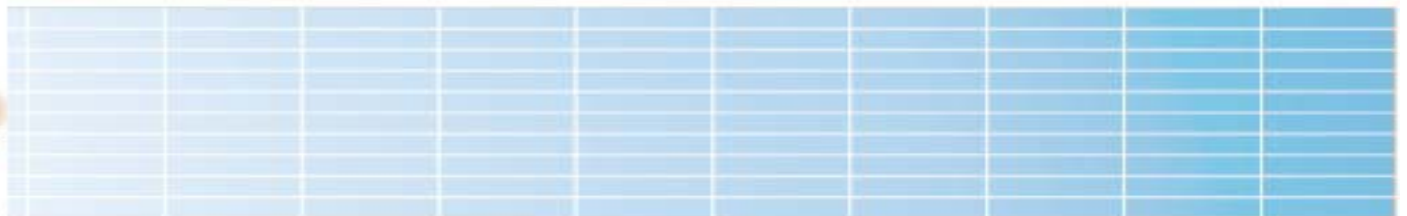
- Technical reports
- Test results
- Studies and analyses
- Journal articles
- Proceedings
- Theses and dissertations
- Patent information
- Planning documents
- Command histories
- Research summaries:
  - Ongoing
  - Completed
- Project details:
  - Objective
  - Approach
  - Progress
- Organizational details:
  - Funding data
  - Performing/funding agency/contractor



# Safeguarding Information

## Authorized Use of the Collection:

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- Exceptions to predefined, marked, established distribution statements must be approved by controlling agencies
- Release of limited (and higher) information can be tracked for investigation of unauthorized use

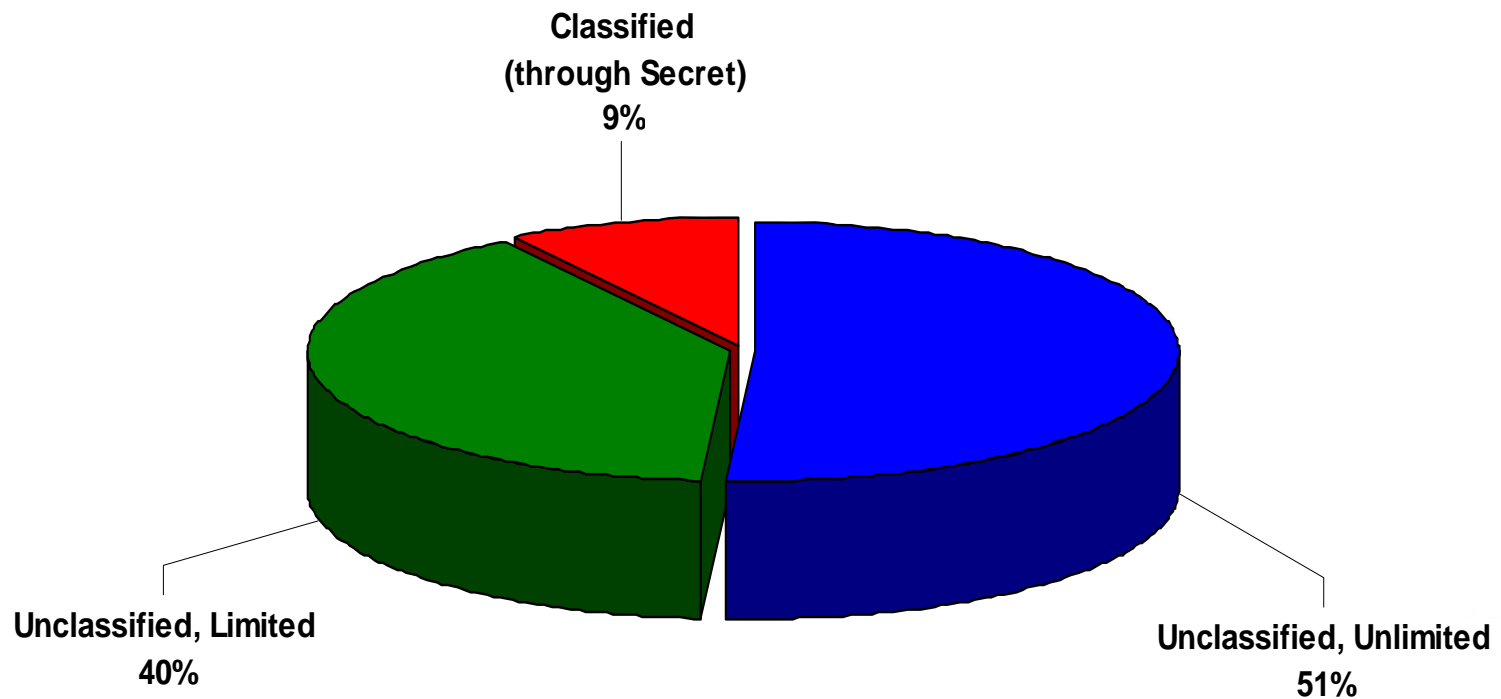




# Safeguarding Information

## Security Categories of the Collection

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# DTIC Accomplishments to Benefit S&T

- **DTIC Online Public Released**
- **DTIC Online Unclassified on SIPRNET**
- **DTIC Online Access Controlled Near Completion**

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### Provider of DoD Technical Information to Support the Warfighter

The Defense Technical Information Center (DTIC<sup>®</sup>) serves the DoD community as the largest central resource for DoD and government-funded scientific, technical, engineering, and business related information available today .  
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**SPARTAN Scout Unmanned Surface Vehicle**  
Recent attacks by nonconventional and terrorist forces have shown there is a need to address force protection issues of naval assets and shore-based facilities. SPARTAN Military Utility Assessments (MUAs) were conducted in FY 2006 ... [Full Story](#)

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### Announcements

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MultiSearch – searches more than 400 DoD, federal, commercial & international S&T sources from 50 countries



# DTIC Online Unclassified on SIPRNET

- Unclassified site available to all SIPRNET users – No registration required for open site
- Links to login for **Classified STINET** with complete collections of Tech Reports & Research Summaries
- Links to login for **Classified TEMS** with IAC docs
- Registration required for Classified
- Describes sites on NIPRNET
- Links to other SIPR sites
- <http://www.dtic.smil.mil>



Welcome to DTIC

The Defense Technical Information Center (DTIC) is the PREMIER provider of DoD technical information. DTIC is a DoD Field Activity under the Under Secretary of Defense for Acquisition, Technology and Logistics, reporting to the Director, Defense Research and Engineering (DDR&E).

Quick Links

- [DTIC Online Public](#)
- [Forms & Guides](#)
- [IACs](#)
- [Quick Navigation Guide](#)
- [R&E Portal - Where Did It Go?](#)

DoDTechipedia

 DoDTechipedia is DoD's first enterprise-wide, social-networking tool focused on the science and technology community. Using a wiki format, DoDTechipedia's goal is to foster communication and collaboration among DoD scientists, researchers, program managers, acquisition professionals and warfighters that results in improved warfighter performance.

Announcements



Mark your calendars for the DTIC 2009 Conference to be held on 6-8 April at the Hilton Alexandria Old Town, Alexandria, Virginia. More information regarding this conference can be found on the Conference Web site located at <http://www.dtic.mil/dtic/annualconf/2009Home.html>.

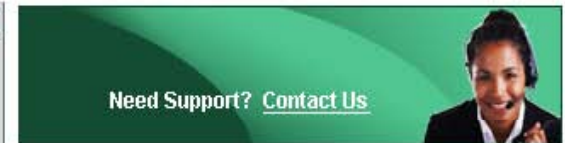
More [Announcements](#) ...

DoD R&E Success Story



**A160 Hummingbird UAV**

The A160 program will exploit a hingeless, rigid-rotor concept operating at the optimum rotational speed to produce a vertical take-off and landing (VTOL) unmanned air vehicle



Customize Your Home Page

Start here to customize your interface. Choose one of these content categories.

- [Acquisition](#)
- [General Interest](#)
- [Resource Management](#)
- [Science and Technology](#)

For more information about customizing your home page, see DTIC Online [Help](#)



R&E Database Search

The [Research and Engineering \(R&E\) Database Search](#) allows you to interrogate the data that the Services and Agencies submitted for the FY2006 and FY2007 DoD E-Gov Data Calls. In addition to the parameters you choose on the query screen, the search is limited by the

**Coming Soon: DTIC Online Access Controlled – Integrated resources for DTIC registered users with personal customization of homepage**



# DTIC Accomplishments to Benefit S&T

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- DTIC Online Access Controlled Near Completion
- **DoDTechipedia and DoDTechipedia  
SIPRNET Launched**

# DoDTechipedia: DoD S&T Wiki for Collaboration

The screenshot shows the DoDTechipedia website interface. On the left, there is a navigation menu with links to Home, Recently Updated, Acronyms, Terminology, Technology Areas, Interest Areas, Organizations, Countries, How to Do Business, Related Resources, Blogs, Inside DoDTechipedia, My Favorites, and Random Article. Below this is a 'General Information' section with links to Security and Privacy Notice, Help, FAQ, Tutorial, Guidelines, Sandbox, Feedback, and Release Notes. The main content area features a search bar, a 'Welcome to DoDTechipedia' heading, and a paragraph about the technological superiority of the American workforce. A yellow callout box with a red border points to the 'Edit this page' and 'Attachment' buttons, containing the text: 'Fosters communication between those with needs and those with answers. Any user can edit content and add attachments.' Below the callout, there is a 'Feedback' section with a bullet point asking for improvement, and an 'Announcements' section with a bullet point about the Pilot (Beta) period ending on Tuesday, Sep 30, 2008.

**Fosters communication between those with needs and those with answers.**

**Any user can edit content and add attachments.**

improve. To learn more about the purpose of DoDTechipedia, see the [DoDTechipedia Fact Sheet](#).

### Feedback

- Please identify areas for **improvement** and fine tuning of the DoDTechipedia Wiki experience. Please go to the [Feedback](#) page.

### Announcements

- Pilot (Beta) period ended Tuesday, Sep 30, 2008.
- We're now live!

See more announcements at [Inside DoDTechipedia](#).

### Upcoming Events

# DoDTechipedia

- **Unclassified, Access Controlled Site:**  
<https://www.dodtechipedia.mil>
- **Internal Wiki available to:**
  - **DoD and DoD Contractors (CAC or DTIC login-password)**
  - **Federal Government and Federal Government Contractors (DTIC login-password)**



# DoDTechipedia SIPRNET

- **Classified Site:**  
<https://www.DoDTechipedia.smil.mil>
- **SIPR Wiki site available:**
  - Read Only Access: All SIPR users
  - Contributor to Wiki: DTIC registered user with DTIC login-password
- **Includes S&T Integrated Priority List (STIPL) for Combatant Commands**



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- DoDTechipedia and DoDTechipedia SIPRNET Launched
- **DefenseSolutions Implemented**





# DefenseSolutions.gov: DoD Portal for Ideas



DEFENSE **SOLUTIONS**.GOV

## The U.S. Department of Defense New Idea Portal

An Official Website of the Department of Defense

Search:



### Propose an Idea

Funding decisions fast: DoD's new idea portal

The U.S. Department of Defense is looking for a few really good ideas – products, services, prototypes, and concepts that advance our military's missions.

Use this portal to submit your ideas. Get an initial response in less than 30 days. Initially, we can only accept ideas in one theme area, but more new themes will be added. Click on the theme below or, join our email list and we will notify you when other technical areas are added.



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### Themes Accepting Offers:

Click button to submit your idea or solution. Click link for more information.

**FORENSICS**  
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### Find Out More

Different ways to do business with DoD

DefenseSolutions.gov is a portal through which innovative companies, entrepreneurs, and research organizations can offer potential solutions to the Department of Defense. This portal, and the team behind it, are designed to encourage companies that have never considered doing business with DoD to participate.

Our process depends on direct communication with you when you submit an idea that is attractive in an area where we need a solution. The review process is continuous to avoid internal delays in decisions and review. [More >>](#)

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# DefenseSolutions.gov

## DoD Business Portal

- DoD's new online access point for private sector innovation
- Focus on finding technical solutions to battlefield challenges
- Theme or area posted; e.g., Battlefield Forensics
- Invitation for technical experts, engineers, craftsmen, inventors, and organizations that may not currently contract with DoD to submit ideas
- Objective: Find good ideas & develop quickly
- 56 ideas submitted; 10 being pursued (5/28/09)



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- **Congressional Budget Data on Web**



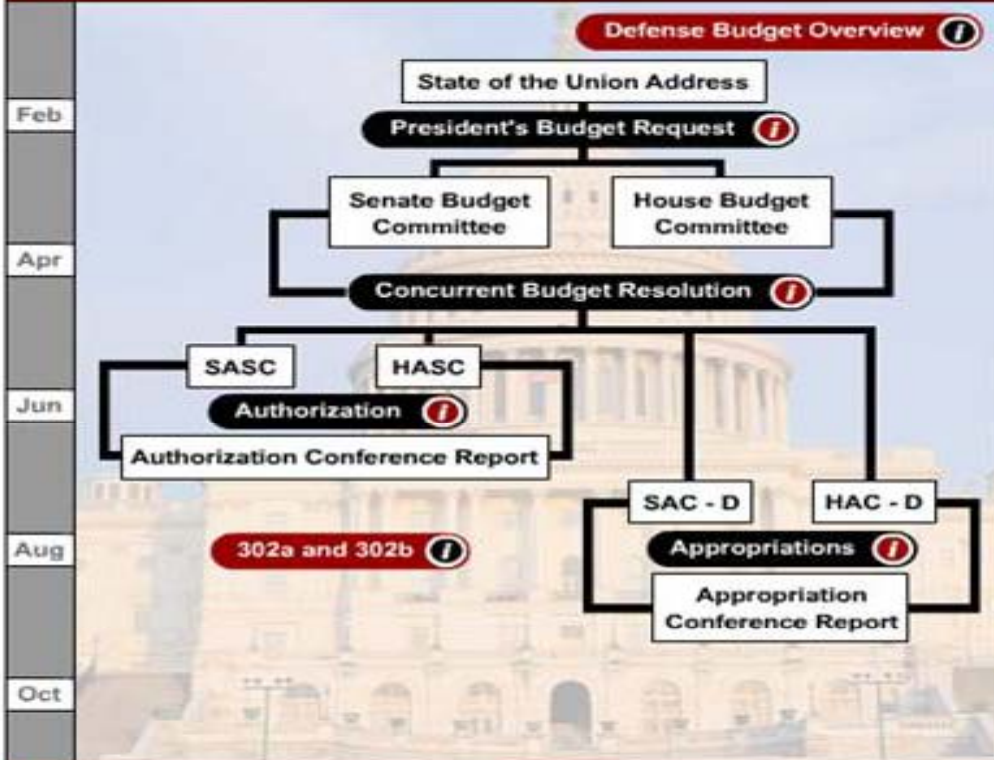
# Congressional Budget Data

## Congressional Query Site Presidential Budget Request (PBR) Process



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- **Information Analysis Centers (IACs) Management**



# DTIC Information Analysis Centers (IACs)

## IAC

AMMTIAC  
CBRNIAC  
CPIAC  
DACS  
IATAC  
MSIAC  
RIAC  
SENSIAC  
SURVIAC  
WSTIAC

## Expertise and Technology

Advanced Materials and Testing  
Chemical, Biological Radiological, Nuclear  
Chemical Propulsion  
Data and Analysis Center for Software  
Information Assurance  
Modeling & Simulation  
Reliability  
Sensor Technology  
Survivability/Vulnerability  
Weapons Systems Technology

## Prime

Alion Science & Technology  
Battelle Memorial  
Johns Hopkins University \*  
ITT  
Booz Allen Hamilton  
Alion Science & Technology  
Wyle Labs  
Georgia Tech Research Ins \*  
Booz Allen Hamilton  
Alion Science & Technology

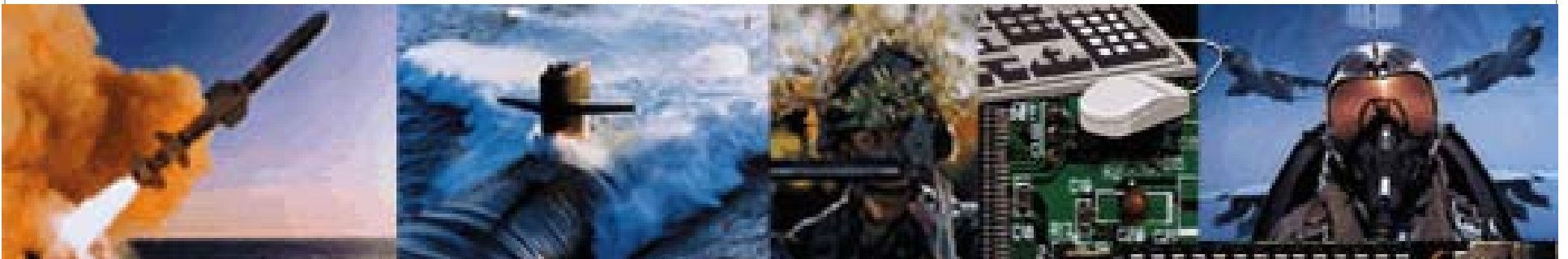
\* Academic Institutions

<http://iac.dtic.mil>



# IACs Are Centers of Excellence

- Managed by the Defense Technical Information Center
- Focused on providing knowledge management and solutions in a given domain
- Developing, capturing, managing and disseminating Scientific and Technical Information (STI)
- Helping synchronize their respective communities
- ...and solving tough problems





# IACs Have Shared, Common Mission & Set of Core Services

- Collect, process & manage, analyze, disseminate STI
- Answer technical inquiries
- Maintain databases of subject matter experts, tools, & models
  - Tailored to the specific community needs
- Enable DoD & government to obtain additional support through TAT\* program
- Conduct research and disseminate reports
  - Tools Reports, CR/TAs\*, SOARs\*
- Support DoD current awareness efforts
  - Newsletters, calendars, web, conferences

***IACs serve as a bridge between Government, Academia, and Industry***

\*TAT: Technical Area Task

CR/TA: Critical Review and Technology Assessments

SOAR: State of the Art Report





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- DoDTechipedia and DoDTechipedia SIPRNET Launched
- DefenseSolutions Implemented
- Congressional Budget Data on Web
- Information Analysis Centers (IACs) Management
- **Outreach to Acquisition Community**



# *Acquisition and Life Cycle Management Symposium*



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

**Sponsored by  
The Honorable John J. Young  
Under Secretary of Defense Acquisitions, Technology and Logistics**

**November 18-19, 2008  
Huntsville, Alabama**





# DTIC Accomplishments to Benefit S&T

- DTIC Online Public Released
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- Congressional Budget Data on Web
- Conference for Acquisition Community
- **Outreach to Combatant Commands**

# *Combatant Commanders* **WORKSHOP**



## *Rapid* **Technical Support For the Warfighter**

Sponsored by  
**The Honorable John J. Young**  
**Defense Research and Engineering (DDR&E)**

**29-30 October 2007**  
**Lockheed Martin's**  
**Center For Innovation**  
**Suffolk, Virginia**

For more information call:  
**703-767-8248/8217**

Information for the Defense Community 



# DTIC Outreach to Combatant Commands

- **Operational Information Sharing – 2<sup>nd</sup> year**
- **DTIC working with Office, Assistant Secretary of Defense/Networks & Integration Information (NII)/DoD Chief Information Officer (CIO), Information Policy & Integration Directorate**
- **DTIC personnel available to provide briefings, training, reference, and on-site assistance with exercises for Combatant Commands**



# DTIC Support for Exercises

## Pacific Command (PACOM) Exercises

- DTIC participation in Hawaii exercise, Spring 2008 and Spring 2009

## Northern Command (NORTHCOM) Exercise

- DTIC participation in Colorado exercise, Spring 2008



## DTIC Support

- Advance research of Gaps on Classified STINET
- Embedded DTIC Librarian with TS for entire exercise
- No TDY cost to COCOMs for DTIC support
- DTIC training by Librarian to COCOMs
- DTIC reachback reference support with DoD, IAC, & other Web resources during exercise
- Communication possible via secure telecon and Defense Connect Online (DCO) SIPRNET

DEFENSE TECHNICAL INFORMATION CENTER

# Combatant Commanders WORKSHOP

TAMPA, FLORIDA  
November 3-4, 2009



**DTIC** Information for the Defense Community



**Save The Date!**

**DTIC 2010  
Conference  
March 22-24, 2010**





# DTIC Accomplishments to Benefit S&T

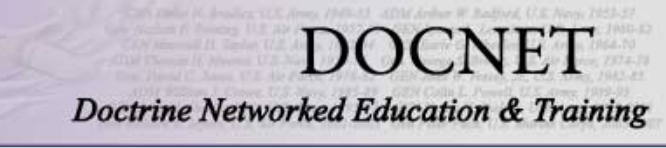
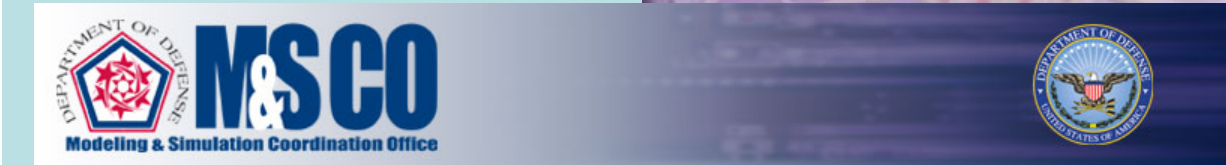
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- Outreach to Combatant Commands
- **Development and Support of Web Services**

# DTIC Web Support



Multilateral Planners Conference VI

Copenhagen, Denmark ~ 13 - 15 May 2008





# 64 Years of DTIC Success to Share with COCOMS

- ❖ DTIC has been successful in providing information to the defense community for more than 60 years by knowing how to present information.
- ❖ DTIC is a vital link in the partnerships among warfighters, the acquisition community, technology providers and information professionals.
- ❖ No matter what the medium, content or dissemination method, DTIC's purpose has always been to help people use information as efficiently as possible to strengthen the nation's defense.



## Where Can You Learn More?

**Please visit the DTIC exhibit to obtain more information, watch a tutorial, and register for DoDTechipedia and DTIC's other access controlled resources!**





## DEFENSE TECHNICAL INFORMATION CENTER

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*Information for the Defense Community*



**R. Paul Ryan**  
*Administrator*

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