



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

*Celebrating 65 Years of Providing Access to Defense Information*

# **DTIC: A Leader in Web Hosting Services for DoD**

**24 March 2010**

**Ms. Michelle Seaward, Moderator**



# DTIC: A Leader in Web Hosting Services for DoD

DoD Field Activity Since 2004 DoD Field Activity Since 2004 DoD Field Activity Since 2004 DoD Field Activity Since 2004 DoD Field Activity Since 2004 DoD Field Activity Since 2004

**Mr. Joe Oliver**

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DTIC

**Mr. Paul L. Kemble**

Management/Program Analyst

DTIC



# DTIC: A Leader in Web Hosting Services for DoD

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DTIC



# DTIC Search Engine Enhancements

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## DTIC Search Engine Enhancements

Mr. Joe Oliver



# DTIC Search Engine Enhancements

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## ■ Features:

- Provides information services to the Warfighter and the Science and Technology (S&T) community
- Crawls and searches all DoD sponsored content
- Categories logically grouped by DoD organization
- Google-like interface: Microsoft FAST Search Engine

## • Environments Supported:

- Public
- SSL
- SIPRnet



# DTIC Search Engine Enhancements

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- **Search Evolution:**
  - **DTIC Query Language (DQL)**
  - **Tag Cloud**
  - **X86, VM**
  - **Full-text pdf search**
  - **Windows**
  - **Web 2.0 technologies**
  - **Semantic searching**



# DTIC Search Engine Enhancements

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- **DTIC Road Map:**
  - **Semantic search roadmap - Apr 2010**
  - **FAST on X86 servers online Access Controlled (AC) & Public - May 2010**
  - **Single search across DTIC S&T - Jan 2011**
  - **Complete full-text indexing of TR, IRD, RS collections - Mar 2011**
  - **Complete migration of FAST Services to Windows - Jul 2011**
  - **Enhanced semantic search capability - FY 2012**



# Customer Registration System Solutions

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## Customer Registration System Solutions

Mr. Paul Kemble





# Registration Systems

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## DTIC offers a variety of registration solutions

- Standard DTIC registration provides access to all DTIC collections based on your access level
  - Recommended for users needing access to a wide variety of data
- Custom lightweight registration for restricted access to a specific site by a select group of users
  - Recommended when access to other collections is not required or would be restricted or when access to this data is restricted to a specific group of users



# Lightweight Registration

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## Custom lightweight registration

- Allows access to a specific set of data by a focused user group
- Requires each member to register for the group
- Requires only the permission of the owner of the data for each member requesting access



# Focused User Group

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## Access to a specific set of data by a focused user group

- Data can be related to a specific project, and access to the data requires it be limited to a select group of users
- The registration site is setup specifically for this data
- Each member must request access by registering
  - Can use their existing DTIC user ID and password
  - Can create a user ID and password for just this data and eliminate the more restrictive vetting required for full DTIC access
- Must be vetted by the owner of the information or his/her designated representative
  - Places the responsibility of data access on the owner of the data



# Specific Data

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**Specific data is defined as information that is related to a very special or unique topic**

– **Execution Performance Tracking System**

- Related to projects funded by RRFO/QRF only persons with proposal have access and only to their proposals

– **DDR&E Prize Competition**

- Data related to the prize competition and to a specific team

– **EMTEC**

- Data and messages for members of the Emerging Technologies focus group



# Registration Site

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## The site can be designed with unique logo, header, or name



Please Sign In

To register for the **Wearable Power Competition** [click here](#)

You are accessing a U.S. Government (USG) Information System (IS) that is provided for USG-authorized use only. By using this IS (which includes any device attached to this IS), you consent to the following conditions:

- The USG routinely intercepts and monitors communications on this IS for purposes including, but not limited to, penetration testing, COMSEC monitoring, network operations and defense, personnel misconduct (PM), law enforcement (LE), and counterintelligence (CI) investigations.
- At any time, the USG may inspect and seize data stored on this IS.
- Communications using, or data stored on, this IS are not private, are subject to routine monitoring, interception, and search, and may be disclosed or used for any USG authorized purpose.
- This IS includes security measures (e.g., authentication and access controls) to protect USG interests--not for your personal benefit or privacy.
- Notwithstanding the above, using this IS does not constitute consent to PM, LE or CI investigative searching or monitoring of the content of privileged communications, or work product, related to personal representation or services by attorneys, psychotherapists, or clergy, and their assistants. Such communications and work product are private and confidential. See User Agreement for details.

If you are having problems, click [here](#) for help and contact information.

Access to this site requires [registration](#).

I agree to the terms of the [User Agreement](#)

Use DoD CAC

- OR -

Use Userid/Password

You are trying to access the following URL:

<https://ddreprise.dtic.mil/>





# Vetting of Registration Request



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**Owner of information is notified via email when a person requests registration and is then provided a link to the approval queue**

– Example:

Kemblep1234 submitted a registration request for EMTEC access using this URL:

<https://register.dtic.mil/wobin/WebObjects/RegLite?SiteID=EMTEC>

Check the registration queue by logging on using this URL:

<https://lapp.dtic.mil/wobin/WebObjects/GenericQ?SiteID=EMTEC>

Please do not reply to this email message as it is simply an automated message sent when the user submits a registration request.



# User Vetting

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## Users vetted by information owner or a designated representative

- Selects the User ID of a person to approve
- Clicks Approve and user is automatically added to the approved list
- User requesting access is automatically sent an email notifying them they have been approved and can now access the site
- Approved list is created to keep track of registered users

### EMTEC

LDAP group membership Request Type Records

EMTEC  5

Select a Request Type and press the Go! button.

<a href="#">Userid</a>	<a href="#">First Name</a>	<a href="#">Last Name</a>	<a href="#">E-mail</a>
<a href="#">cookj1111</a>	Jim	Cook	jim.cook.ctr@osd.mil

Default sort is by Userid. Click on column hyperlink to sort differently or reverse order



# Registration Summary

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DTIC recommends that anyone needing access to technical information register for a standard DTIC account.



For Customers requiring access to a very limited data set by a specific group of users, DTIC can create a custom registration system that can be used with your existing site or when you host your site at DTIC.





# DTIC Web Services

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# DTIC Web Services

Mr. Chau Vuong



# Agenda

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- **Project Goals**
- **DTIC Web Services**
- **Success Story & Lessons Learned**
- **How to discover DTIC Web Services**
- **Demo**



# Project Goals

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## Project Goals:

- Become discoverable by existing and potential new customers
- Enable a broad-range of DTIC applications to leverage Service Oriented Architecture (SOA) (e.g., STINET Search/Retrieval, e-Gov data submissions)
- Expand the capability to make the information available and accessible to the services and agencies within the DoD and the warfighters



# DTIC Web Services

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## Functionality

- Support standards for XML, UDDI, SOAP, WSDL and WS security
- Simplify DTIC external data communications to well documented Web services/SOAP interfaces using XML as a data transmission container standard
- Publish the services available via SOA\* and develop a migration path to move existing external communications and business partners to SOA/Web services for bi-directional data exchange

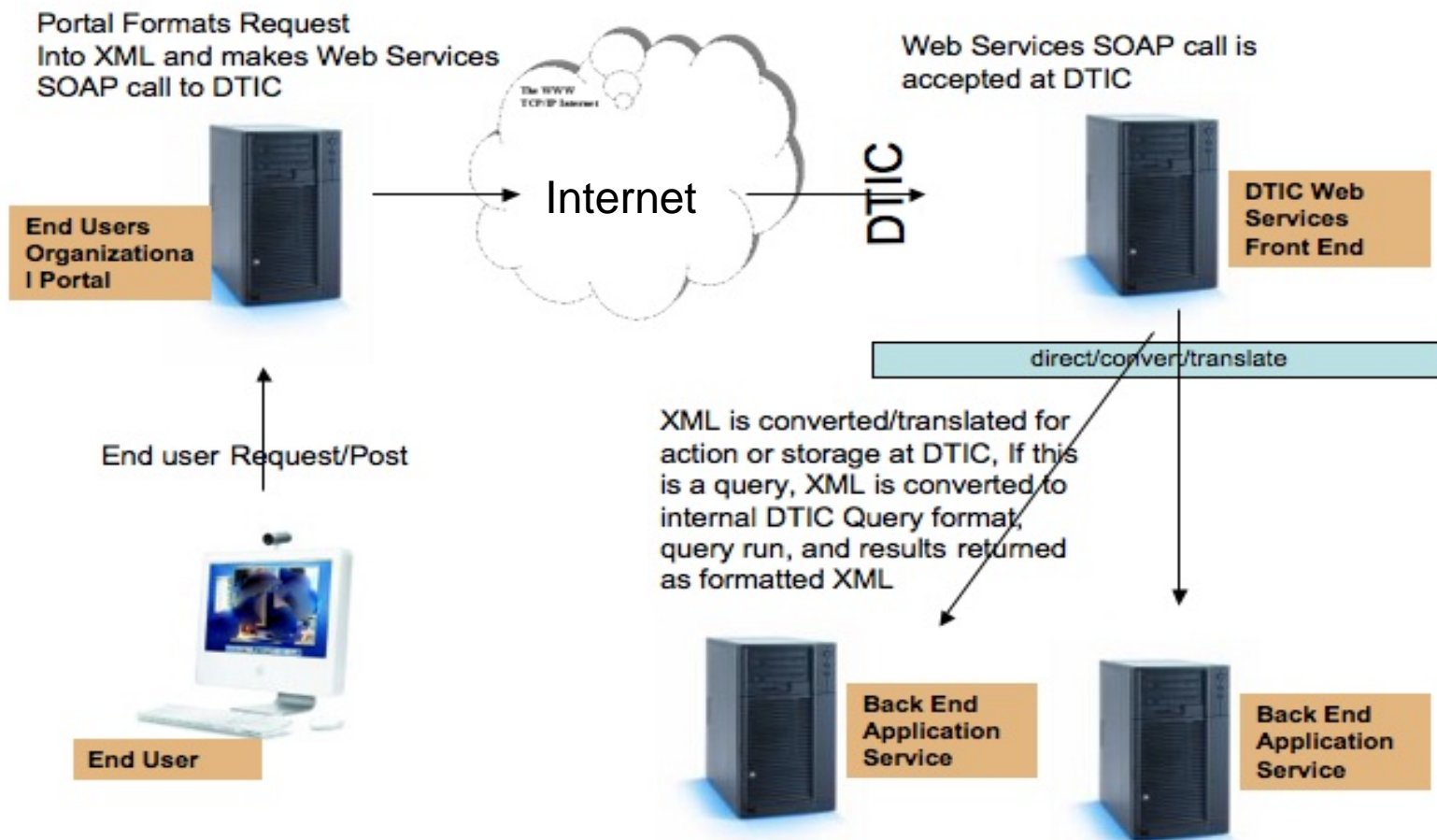
\*Service Oriented Architecture



# DTIC Web Services

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## How does it work?





# DTIC Web Services

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## Roadmap

**Phase 1** Limited & Public

**Phase 2** SIPRNET

**Phase 3** Application Migration



# Target DTIC Web Services

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- **Submit R&E Data (e-Gov data) – 2007**
  - Trusted external server submits e-Gov data to DTIC
- **Submit a Document – 2009**
  - A known external data owner submits a document to DTIC's TR collection and receives an acknowledgement; and the document is added to the collection. (Expand to IR&D, RS)



# Target DTIC Web Services (cont'd)

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- **Submit a Query/Search – 2009  
(in development)**
  - Trusted external server submits query term(s) and receives a list of matching TR documents. (Expand to IR&D, RS)
- **Retrieve a Document –2009**
  - Trusted external server submits a request for a specific TR document and receives that document electronically. (Expand to IR&D, RS)





# Target DTIC Web Services (cont'd)

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- **Expand services to include other data collections (e.g., IR&D, RS, etc.), and other applications**
  - Financial Reports (R2) submission for DoD Comptroller (Under development) – On-going
  - FAST crawl - TBD
- **Integrate with products from NCES\***
- **Establish an S&T Community of Interest**



# Success Story

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- **2007: Partnered with AFRL-STES to implement Web services for R&E Data (e-Gov data) submissions**
- **2008: STES successfully submitted e-Gov data submission to DTIC**
  - Required manual intervention to complete the submission.
  - Records count not available immediately for verification
  - Data not available immediately for query
  - Performance issue



# Success Story (cont'd)

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- **2009: Fully automated for the successful submission of e-Gov data to DTIC**
  - Data was processed from end-to-end without intervention
  - Records count available immediately for verification
  - Data available immediately in production database for query
  - Performance improved



# Lessons Learned

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- **Process not fully automated**
  - Manual process is required to load data into database
  - Redesigned the backend interface to streamline the process.
- **Incompatible environment**
  - The application was successfully tested in staging but failed in production
  - Performed pre-production testing
- **Issues with PKI certificates**
  - Certificates expired or invalid
  - Add step to verify certificates



# Lessons Learned (cont'd)

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- **Performance issue**
  - Experienced performance degradation during live submission
  - Performed pre-production load test
- **Error handling**
  - Unclear error message
  - Provide a more descriptive message



# How to Discover DTIC Web Services

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DTIC Web services are registered with the Net-Centric Enterprise Services (NCES) DoD MetaData Registry (MDR)

- <https://metadata.dod.mil/mdr/homepage.htm>
- Click on 
- Click on **Search Services**
- Search for “**DTIC**”



# Human Systems

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## Human Systems

### The 4 Ws Overview and DTIC Support

Ms. Teresa Alley



# Human Systems

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## 4 Ws of Human Systems

- **What** is Human Systems?
- **When** does Human Systems happen?
- **Where** does it exist in DoD Acquisition?
- **Why** do it?





# Human Systems

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**Because.....**

***There are no unmanned systems***



# Human Systems

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## DTIC San Diego Support for Human Systems

- Web site of Human Systems R&D information
- Develop and update information products
  - *Directory of Design Support Methods*
  - The Human
  - Funding
  - Standards
  - And more
- Web design
- Liaison, collaboration, and ad hoc information



# Human Systems

## Human Systems



### Directory of Design Support Methods (DDSM)

Research & Development (R&D) tools reference

### Engineering Data Compendium: Human Perception & Performance

Human engineering reference for systems design

### Technical Reports

Most recent 12 months of Department of Defense reports

### Library

Department of Defense Research & Development planning, documents, journals, database resources

### Standards

Documents, information, working groups & links

### Research & Development Funding

Research and Development Descriptive Summaries (RDDS), spreadsheets, information

## DTIC SAN DIEGO



**DTIC-A San Diego** provides the acquisition, analysis, organization, and dissemination of information to the Human Systems, and Biomedical Research and Development (R&D) communities as well as Small Business support.

[more about us.....](#)

### Conferences

Human Systems  
Biomedicine  
Small Business & Technology Transfer

### Links

Human Systems  
Biomedicine  
Small Business  
Technology Transfer

## Biomedicine



### Biomedical

[General Information](#)

### Technical Reports

Most recent 12 months of Department of Defense reports

### Directives & Instructions

Department of Defense & services issuances

## Small Business



### Small Business Assistance

[General Information](#)

### SBIR/STTR Opportunities

Small Business Innovation Research (SBIR) & government solicitations

### Technology Transfer (T2)

[General Information](#)

### Job/Research Opportunities

[Human Systems](#)



# Human Systems

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## Questions?





# Points of Contact

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# Disclaimer of Endorsement



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