



Support. Equip. Empower. Assessing and Accommodating Cognitive Injuries



Webinar Series Overview

- Session 1: CAP and the DoDI 6025.22
 - Mandates of DoDI
 - Overview of CAP services
- Session 2: Assistive Technologies and Needs Assessments
 - Needs Assessments
 - Overview of Assistive Technology (AT)
 - CAP support to MTFs
- Subsequent Sessions
 - Focus on needs assessments and AT per disability area
 - Case studies of needs and solutions



Needs Assessments

Key Steps in the Process

- The Individual
- The Injury
- The Job
- Identify the Accommodations



Cognitive Impairments

The Individual

- Cognitive functioning prior to injury
- Current Status
 - Recovery/rehab
 - Temporary duty assignment while receiving medical treatment
 - Already continuing on active duty (COAD)
- Future Plans
 - COAD
 - COAD with new MOS
 - MEB/PED
 - Separating and continuing education
 - Separating and working in private sector



Cognitive Impairments

The Individual

- Information Technology (IT) use
 - Personal use only (email, web surfing, games)
 - Professional use only (related to MOS)
 - Personal and professional use
 - Applications used
- Assistive Technology (AT) use
 - Previous user
 - Type/duration/training
 - Non-user
 - Exposure to AT in MTF setting



Cognitive Impairments

The Injury/Disability

- Injuries
 - Traumatic Brain Injury (TBI)
 - Post Traumatic Stress Disorder (PTSD)
 - Post Concussive Syndrome
- Cognitive Conditions
 - Difficulty focusing on printed or spoken information
 - Difficulty comprehending verbal or written information
 - Short-term memory loss
 - Memory loss impacting steps in an activity



Cognitive Impairments The Job/Task

- COAD
 - Electronic/telecom-based functions
 - Specific applications used
 - Specific tasks performed
 - Noise level of work environment
- Separating
 - Continuing education
 - E-learning, 'brick & mortar', or both
 - Support services from educational facility
 - Work awaiting in private sector
 - Working in federal sector



Cognitive Impairments Potential AT Solutions

- Cognitive / Learning
 - Word prediction software
 - Literacy software
 - Speech recognition software
 - Screen readers
 - Cueing and memory aids (PDAs)
 - Assistive listening devices
- Communication
 - Amplifiers
 - Augmentative communication devices





Cognitive Impairments Case Study 1:

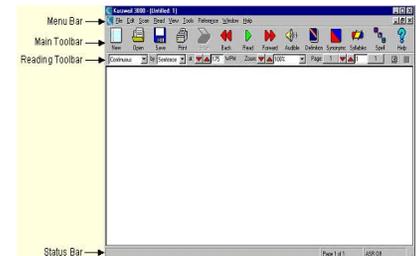
- Diagnosis
 - Traumatic Brain Injury from IED Blast
 - 70% Frontal Lobe Damage
- Limitations
 - Short and Long Term Memory Loss
 - Decreased concentration and attention
 - Word comprehension deficits
- Status
 - Attempting COAD and continuing education
 - Online classes
- Solutions
 - Literacy Software
 - Scanner
 - Schedule Assistant and Pocket Coach PDA



Cognitive Impairments

Case Study 1:

- Literacy Software
 - Dictionary
 - Masking features
 - Document and application readers
- Scanner
 - Options for hard-copy
 - Convert to text for notes
- Schedule Assistant and Pocket Coach PDA
 - Recording capabilities w/ auditory cues
 - Step by step instructions

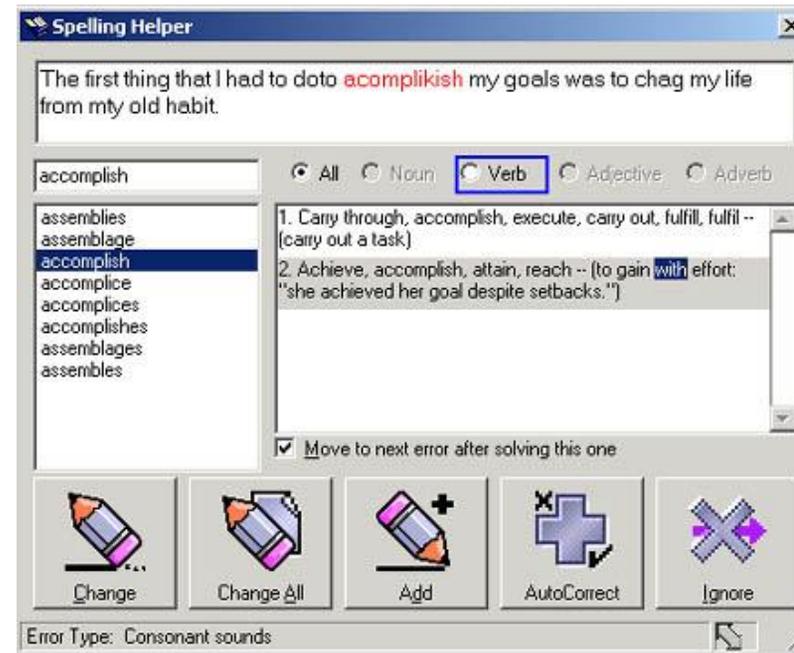




Cognitive AT

Focus on Literacy Software

- User can control how text or verbal information is presented
- Variable highlighting and masking of text
- Text, cues, dictionaries, and prompts can be read aloud
- Applicable to existing electronic documents
- Hard copy information can be scanned then accessed
- Information:
<http://www.tricare.mil/cap/wsm/accomsol/>





Cognitive Impairments Case Study 2:

- Diagnosis
 - Traumatic Brain Injury from RPG
 - Post Traumatic Stress Disorder
 - Nerve Damage
- Limitations
 - Executive Functioning Deficits
 - Word finding and comprehension deficits
 - Tremors
- Status
 - Continuing education
 - Both online and 'brick & mortar' classes
- Solutions
 - Literacy Software
 - Speech Recognition Software
 - Scanner
 - Basic PDA
 - PDA Keyboard



Cognitive Impairments Case Study 2:

•Solutions

- Literacy Software
 - Allow for word prediction and comprehension
- Voice recognition software
 - All input to the computer
- Scanner
 - Convert hard copy documents
- Basic PDA
 - Help with organization
- PDA Keyboard
 - Alternative to stylus





Cognitive Impairments

Case Study 3:

- Diagnosis
 - IED Blast, TBI, Post Concussive Syndrome, loss of sight
- Limitations
 - Some memory deficits
- Status
 - MEB/PEB
 - Civilian Employment
- Solutions
 - Screen-reader software
 - Portable electronic reader
 - Talking Organizer



Cognitive Impairments Case Study 3:

- Screen-reader software
 - Verbalization of all info from computer
- Portable electronic reader
 - Voice output of electronic information
 - Usable across environments
- Talking Organizer
 - Verbalization of appointments/tasks





Cognitive AT

Focus on Cueing and Memory Aids

- Standard technologies
 - Calendar/reminders in email programs
 - Calendars/alarms in cell phones
- Varying levels of complexity
 - Wearable device provides cues and access to contacts
 - Handheld PDAs with standard productivity functions, or powerful audio/graphic/visual cues
- http://www.tricare.mil/cap/wsm/accom_sol/





Memory/Cueing Aids

Timex IronMan Data Link

- Wearable device provides cues and access to contacts
- Provides access to contact information when synced to computer
- User can scroll through daily schedule
- Less likely to be lost or misplaced
- Provides auditory cues for appointments





Memory/Cueing Aids

PDA's

- 'Basic' PDA
 - Standard Microsoft applications
 - No additional AT software applications
 - Calendar/reminders in email applications
 - Ability to sync with contacts/schedule from computer
- Basic PDA w/ GPS
 - Same features as Basic PDA
 - GPS capabilities





Memory/Cueing Aids PDA with Endeavor Suite

- Basic PDA with supplemental software
- For SMs with more significant memory loss
- Provides step-by-step prompts for task completion
- Prompts can be pictorial, text, sound, or combination
- Software provides repeated auditory and visual reminders for appointments
- Ability to record appointment prompts; SM, spouse, care giver can record personalized reminders





Memory/Cueing Aids SmartPhones

- CAP provides only unlocked SmartPhones
- CAP-provided unlocked SmartPhones will work only with service providers using GSM
- Global System for Mobile communications (GSM) systems use Subscriber Identity Module (SIM) cards
- Service providers on Code Division Multiple Access (CDMA) require phones with embedded hardware, or 'locked' phones, to work on their system
- Submitters of requests should be sure requested SmartPhone will work on provider's network





Memory/Cueing Aids

SmartPhones

- GSM Carriers:
 - -AT&T
 - -GTC (AT&T-owned)
 - -I Wireless (T-Mobile-owned)
 - -Immix Wireless (AT&T/T-Mobile)
 - -T-Mobile
 - -West Central Wireless



Needs Assessments: Form



Accommodation Solutions

DoD Instruction

News & Events

Resources

CAP WSM Tools

- ▶ [Submit WSM Needs Assessment](#)
- ▶ [Submit WSM Request](#)
- ▶ [Browse Assistive Technology](#)
- ▶ [Subscribe to CAP Newsletters](#)

WSM Needs Assessment Questionnaire

Step 1

Step 1 | [Step 2](#) | [Step 3](#) | [Review & Submit](#)

Start by indicating who this request will accommodate.

**The asterisk denotes a required field.*

For Whom Are You Making This Accommodation Request *

Select One

If you do not see an option above that matches your identity, please visit CAP's Standard [Needs Assessment](#) for additional selections.

Back

Continue



WARNING: This is a Department of Defense (DoD) interest computer system. The [Military Health System Web Site](#) is the Official Web Presence of the Office of the Assistant Secretary of Defense (Health Affairs) and the TRICARE Management Activity.



[DisabilityInfo.gov](#)





CAP Technology Evaluation Center (CAPTEC)

- Assist individuals and supervisors
 - Choosing appropriate accommodations
- Wide variety of assistive technology
 - VTC capabilities
 - Tours
- Located in the Pentagon
 - 703-693-5160 (Voice)
 - 703-693-6189 (TTY)





Computer/Electronic
Accommodations
Program

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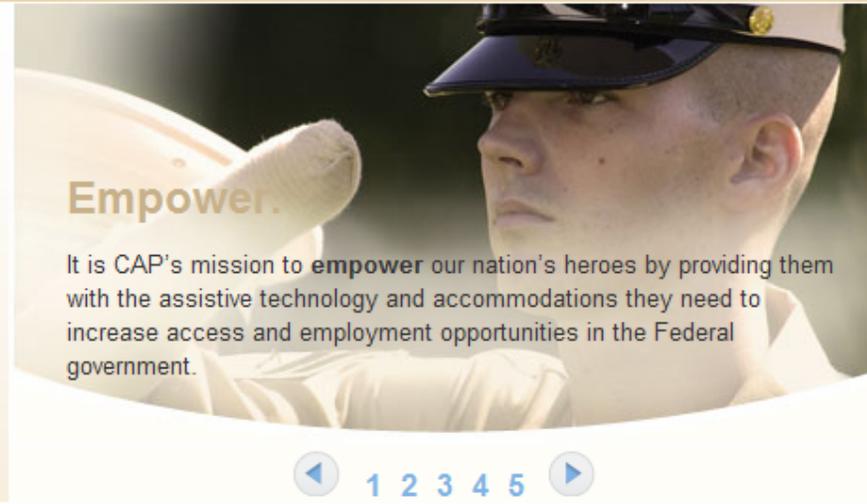
Wounded Service Member Initiative

▼ [Submit WSM Needs Assessment](#)

Providers, service members, and family members can complete a [CAP/WSM needs assessment](#).

▶ [Submit WSM Request](#)

▶ [Browse Assistive Technology](#)



Empower.

It is CAP's mission to **empower** our nation's heroes by providing them with the assistive technology and accommodations they need to increase access and employment opportunities in the Federal government.

◀ 1 2 3 4 5 ▶

CAP Supports Wounded Service Members



CAP works closely with service members across the nation to ensure they receive appropriate assistive technology for their needs, including vision or hearing loss, dexterity impairments, and cognitive difficulties.

In August 2008 the Department of Defense Instruction, Assistive Technology (AT) for Wounded Service Members ([DoDI 6025.22](#) (PDF)) was signed, establishing policy for AT programs in the Military Health System. [Learn more on CAP](#)

WSM Spotlight



On May 28, 2009, the CAP WSM Team conducted a Webinar entitled: Assessing and

Accommodating Dexterity Issues. [View Slides](#) (PDF)

> [Learn more about WSM Webinars](#)



Accommodation Solutions

DoD Instruction

News & Events

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DoD Instruction (DoDI)

DoDI 6025.22

In August 2008 the Department of Defense Instruction, Assistive Technology (AT) for Wounded Service Members (DoDI 6025.22) was signed, establishing policy for AT programs in the Military Health System.



[View the Department of Defense Instruction 6025.22](#) (PDF)

DoDI Handbook

In support of DoDI 6025.22, CAP created the CAP Handbook for Providing Assistive Technology to Wounded Service Members. Our goal is to build upon successes and create an interdependent AT system that enables service members to identify and use AT early in their rehabilitation process. By partnering with medical professionals with this model, the MHS has been and will continue to make a difference in thousands of lives and families.



[View the CAP Handbook for Providing Assistive Technology to Wounded Service Members](#) (PDF)

Memorandum of Understanding

DoDI 6025.22 establishes policy and procedures for assistive technology programs in the Military Treatment Facilities (MTFs). The MTF Commander



Archived webinars

- Slides from webinar series archived on WSM website
 - <http://www.tricare.mil/cap/wsm/events/webinars.cfm>
- Thu. July 30
 - Assessing/Accommodating Cognitive Injuries (repeat)
- CAP Trainings
 - September 17, 2009
 - New York, NY (Tentative)
 - Check CAP Events for future trainings
 - <http://www.tricare.mil/cap/news/events.cfm>



Hiring Heroes Career Fairs Sponsored by CPMS

- July 23, 2009
 - Camp Pendleton, CA
- August 11, 2009
 - Fort Richardson, AK
- August 14, 2009
 - Fort Lewis, WA
- September 2009
 - Fort Carson, CO (tentative)
- September 21, 2009
 - Fort Sam Houston, TX
- <http://www.godefense.com/events.html>



Contact CAP

- CAP WSM Team wsm@tma.osd.mil
- WSM Website www.tricare.mil/cap/wsm
- CAP Office cap@tma.osd.mil
703-681-8813
- VTC assessments available through the CAP Technology Center (CAPTEC) at the Pentagon: (703) 693-5160