Mobile Learning Panel

Implementation Fest 2010
Thursday, 12 August 2010
09:15 – 10:15
**1. REPORT DATE**  
**12 AUG 2010**

**2. REPORT TYPE**

**3. DATES COVERED**  
**00-00-2010 to 00-00-2010**

**4. TITLE AND SUBTITLE**  
**Mobile Learning Panel**

**5a. CONTRACT NUMBER**

**5b. GRANT NUMBER**

**5c. PROGRAM ELEMENT NUMBER**

**5d. PROJECT NUMBER**

**5e. TASK NUMBER**

**5f. WORK UNIT NUMBER**

**6. AUTHOR(S)**

**7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)**  
**Advanced Decision Learning (ADL), 1901 N. Beauregard Street Suite 600, Alexandria, VA, 22311**

**8. PERFORMING ORGANIZATION REPORT NUMBER**

**9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)**

**10. SPONSOR/MONITOR’S ACRONYM(S)**

**11. SPONSOR/MONITOR’S REPORT NUMBER(S)**

**12. DISTRIBUTION/AVAILABILITY STATEMENT**  
Approved for public release; distribution unlimited

**13. SUPPLEMENTARY NOTES**  
**Implementation Fest 2010, 10-12 Aug 2010**

**14. ABSTRACT**

**15. SUBJECT TERMS**

**16. SECURITY CLASSIFICATION OF:**

<table>
<thead>
<tr>
<th>a. REPORT</th>
<th>b. ABSTRACT</th>
<th>c. THIS PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>unclassified</td>
<td>unclassified</td>
<td>unclassified</td>
</tr>
</tbody>
</table>

**17. LIMITATION OF ABSTRACT**  
Same as Report (SAR)

**18. NUMBER OF PAGES**

**19a. NAME OF RESPONSIBLE PERSON**

---

Standard Form 298 (Rev. 8-98)  
Prescribed by ANSI Std Z39-18
Panelists

- Ms. Carol Wall, U.S. Air Force
- Ms. Diane Jenkins, U.S. Army
- Dr. Neal Finkelstein, U.S. Army
- LCdr. Remi Tremblay, Canadian Defence Academy
Mobile Learning

HQ AETC/A8Q
Carol Wall
August 2010
The appearance of commercial products does not constitute endorsement by Randolph Air Force Base, Air Education and Training Command, the United States Air Force, or the Department of Defense, of the commercial product.
“Technological change is accelerating. To accomplish the Air Force mission in an environment of accelerating change, we will need to recruit, train, and educate Airmen with agile minds and cutting edge skills.”

Focus Areas:
- Instructional Design
- Knowledge Systems
- Virtual Environments
- Mobile Learning
- Simulations and Gaming
Develop America's Airmen Today ... for Tomorrow

...the Vision

**Recruiting**
Mobile, Network Connected Device for Recruiters
- Recruiter geo tracking
- Texting to Applicants
- Mass notification to Recruiters
- Recruiter database capable

**Applicant Mobile Device**
- Sync with Recruiter device
- Electronic ASVAB Pre-Test
- Electronic ASVAB Test

**Basic Military Training**
Arrival Processing
- Mobile Device Issued
- Record(s) initiation

Training
- Content available anytime, anywhere
  - Mobile referencing
- Individual/Mass Notification

- Base/local area information
Technical Training

- Content available anywhere, anytime
  - Mobile referencing
- Base/local area information
Where We Are

• Podcasting
  ▪ Resource to extend what is learned to new situations, facilitating transfer of knowledge and continuous learning
  ▪ Podcasting portal page is under development

• Mobile Application
  ▪ Purpose is to serve as a training/reinforcement tool to USAF Basic Military Training physical conditioning
  ▪ Intent is to demonstrate the proper way to accomplish physical conditioning
  ▪ Goal is to reduce injuries and subsequent loss of training time and attrition
Where We Are, cont’d

• Air Force Recruiting Service Mobile
  ▪ Design and implement a low-cost software solution to provide access to video content, form-based tests and data entry pages
  ▪ Capability to migrate data back to the recruiter’s laptop.
  ▪ Explore a camera solution for recording/transmitting interviews
  ▪ Current recruiter laptops will be used to store information from the mobile device and communicate that information to the data base per existing procedures under phase one.

• Aerospace Ground Equipment
  ▪ Objective was to compare devices to see which is most compatible to an Aerospace Ground Equipment course
  ▪ Students and instructors found most utility with the ASUS Netbook
  ▪ Will be a follow on project to provide interactive content
Mobile Accessibility of ADLS

- Want to enable mobile access to web-based training
- Looking at ancillary training courses
Where We Want To Go

• Every service member with a mobile device to communicate within the Air Force and draw information from an enterprise knowledge base.

  • Self-paced individual training
  • Mandatory annual training
  • Classroom Response System
  • Interactive Media Instruction
Challenges

- **Transforming** the learning environment for the learners of tomorrow *today*!!
  - Defining the new knowledge *concepts* for learning
  - Defining the new *technologies* required
  - Defining how to *organize* for effective learning
- Increasing *effectiveness*
- Increasing *efficiency*
- Secure access to content
- Change Management

*A learning revolution!*
Lt Gen Lord – CIO for Air Force

• Tasked Air Combat Command (ACC) to execute and provide a technical review in order to deliver a report of viable strategies and technologies to enable improved access to voice, data, and network assets.

• ACC Hosted a workshop in mid-June at Langley AFB

• Air Force needs mobility for: warfighter effectiveness
  business efficiencies
  recruiting
  accessibility culture
Air Education and Training Command

“The First Command”
The Changing Face of Army Training

Diane Jenkins
Training Analyst, Technology
Integration Branch
Training Technology Division
Sustainment Center of Excellence
G3-CASCOM
SCoE Mobile Team
(Officially formed July 21, 2009)

Matt MacLaughlin: Branch Chief

Diane Jenkins: Beta Testing, QA, Social Networking, PR, Podcast

Christopher Lawson: Lead Developer

David Garrison: COTS Gaming, Podcast
The SCoE Mobile Initiative:

- Creates a clean break from the chains of brick-and-mortar education
- Ensures quality and academic rigor in distance learning classes
- Enables mission critical, right place/right time, formation/educate possibilities
- Strengthens partnership with field commanders and their units through the development of timely and relevant products
- Fits seamlessly into the already established Army course lifecycle
PARADIGM SHIFTS

The SCoE Mobile Count:

- 25 completed Apple Applications
- 7-10 on way to completion
- 1 accepted and posted on the Apple Marketplace (FREE!!!)
- Conversion to HTC, Android, and Palm modes now taking place

The SCoE Mobile Secret:

- .edu server
- Can and have patched out links to applications for immediate access
- All apps “live” off network and are not dependent on connectivity “device agnostic”
SCoE Mobile/ARCIC Pilot Program:

- Initial development done on Apple
- Initial target pilot populations are AIT cadre and NCOs
- Applicable and effective mobile digital devices in support of training
- Cadre access to and update of training materials
IN CONCLUSION

The SCoE Mobile Initiative:

- Creates a clean break from the chains of brick-and-mortar education
- Ensures quality and academic rigor in distance learning classes
- Enables mission critical, right place/right time, information/education possibilities

Courseware now cross-platformed for:
- iPod Touch
- iPod Classic
- iPad
- iPhone
- Sony Playstation Portable
- Sony e-Reader
- HTC, Palm, and Android
CONTACT

Leeescoemobile@conus.army.mil

EVENT

SCoE MOBILE

Fort Lee, Virginia
17-18 August 2010

Leeescoemobile@conus.army.mil

FACEBOOK

“SCoE Mobile” is on Facebook
Dr. Neal Finkelstein

Branch Chief & Program Director for the UCF RAOS Contract US Army Research Laboratory Human Research & Engineering Directorate,
Simulation & Training Technology Center (STTC)
• Formed in 2003 under the Director Training and Education Policy (DTEP) in Ottawa
• Moved to Kingston in 2009
• Now a shared responsibility between
  • Learning Concepts and Experimentation (LCdr. Remi Tremblay) and
  • Learning Technologies (Bill Railer); and
The Canadian Lab Partnership Lab is...

- An applied learning lab
- A recognized Center for Excellence in Trg./Ed. Software/Applications
- A provider for standards and project support
- A partner in joint R&D projects (DRDC / NRC / RCMP / CBSA)
- Expanding our network through additional partnerships
  - Director Land Synthetic Environments (DLSE) and the DRDC Valcartier Serious Gaming Initiative
  - Canadian Advanced Synthetic Environment (CASE)
Mission

- Provide a collaborative environment for training organizations from the DND and GoC to share resources and experiences in implementing innovative e-learning solutions.
First Mobile Learning Study (2008 / 2009)

Courseware

Performance Support Tool

SCORM
Research Questions Posed

- What devices are appropriate for mobile learning within DND?
- What type of courseware is appropriate?
- Is mLearning viable, affordable, beneficial?
- Can we make content readily available to personnel in theatre?
- Can we make content more accessible for personnel in Canada?
- What are the associated costs for development and delivery?

Initial results were positive, but little progress has been made
Mobile Devices – Current Uses

• Use NGrain Models on ruggedized PDA to support access to mission critical land mine information.

• Flight planning and debriefing

• Gathering opinions from high value target populations.

• Current Platforms
  • Blackberry (Daily Ops)
  • I-Touch / I-Phone (Training)
Current Status

• The use of mobile technologies in support of CF Individual Training and Education is still very nascent.

• Mobile is not viewed as a replacement for DL or WBT but as an extension to existing content, personnel, and resources.

• The sweet spot of mobile technologies in the CF is not in training but performance support!
Challenges and Next Steps

- **Challenges**
  - Competing priorities and initiatives (Virtual Worlds, Social Networks, Personal Learning Environments, Simulation and Gaming)
  - Maintenance of dedicated personnel and expertise
  - Internal mobile learning infrastructure almost non existent
  - Data costs for wireless mobile access

- **Next steps**
  - Targeted projects
  - White paper
  - Develop Partnerships
Future Learning Workspace
Within the CF Learning Architecture

Learning Concepts and Experimentation
Discussion & Questions

Ms. Carol Wall
Ms. Diane Jenkins
LCdr. Remi Tremblay
Dr. Neal Finkelstein