Author Request (To be completed by applicant) - The following author(s) request authority to disclose the following presentation in the MORSS Final Report, for inclusion on the MORSS CD and/or posting on the MORS web site.

Name of Principal Author and all other author(s):

Sean Buck (Principal), Frank Rhinesmith, Jose Pagan, Timothy Metivier, LTC Clay Daughtry, Lana McGlynn

Principal Author’s Organization and address:
U.S. Army Test and Evaluation Command
U.S. Army Evaluation Center
4120 Susquehanna Avenue
APG, MD 21005

Phone: (410) 278-0753
Fax: (410) 306-1493
Email: sean.buck@atec.army.mil

Original title on 712 A/B: Innovative T&E That Balances Risk for Future Army Training

Revised title: Innovative T&E That Balances Risk with Resources for Future Army Training

Presented in (input and Bold one): (WG_25, CG__, Special Session ____, Poster, Demo, or Tutorial):

This presentation is believed to be:
UNCLASSIFIED AND APPROVED FOR PUBLIC RELEASE
**Title:** Innovative T&E That Balances Risk with Resources for Future Army Training

**Author:**

**Performing Organization:** U.S. Army Test and Evaluation Command U.S. Army Evaluation Center 4120 Susquehanna Avenue APG, MD 21005

**DISTRIBUTION/AVAILABILITY STATEMENT**

Approved for public release, distribution unlimited

**SUPPLEMENTARY NOTES**


**ABSTRACT**

**SUBJECT TERMS**

**SECURITY CLASSIFICATION OF:**

- Report: unclassified
- Abstract: unclassified
- This Page: unclassified

**LIMITATION OF ABSTRACT:**

UU

**NUMBER OF PAGES:**

15

**NAME OF RESPONSIBLE PERSON**
Innovative T&E That Balances Risk with Resources for Future Army Training

Presented by

U.S. Army Test & Evaluation Command

PEO STRI

National Simulation Center

73rd MORSS June 21-23, 2005
What is the ACTF?

The Army Constructive Training Federation (ACTF) is a collection of Simulations, Sim/C4I interfaces and tools which provide post exercise drivers designed for training land component commanders and their staffs.

It provides a simulated operational environment, in which computer-generated forces stimulate and respond to the command and control processes of the training audience.
Organizational Responsibilities

• Users / NSC – Defines requirements and validates that the system meets the Army’s Title X training needs

• Material Developer / PEO STRI – develops the system based on User’s requirements

• Testers/ATEC - provides system assessment of operational readiness
Necessity for a New T&E Process

Need for:

- Flexibility to handle emerging requirements
- Rapid fielding of ACTF versions
- Minimizing test resources and test events
- Measuring operational effectiveness without a “traditional” Operational Test
- Meeting an Army at War’s training needs
Components of the T&E Strategy

ACTF Configuration Control Board (CCB) → Develop Required Functionality → Test Integration Events (TEs)

ACTF Version Release ← Operational Readiness Event (ORE) ← Validation Event (VE)
Developing the Requirements

- WARSIM ORD is the overarching document

- ACTF CPD produced every three years

- Yearly CCB to identify and prioritize requirements for annual builds
  - Develop version plan and schedule
  - Develop testing and fielding plan
  - Conflicts are resolved by DA
Integrating & Verifying Requirements

- TEs integrate and verify new functionality into the ACTF

- VEs evaluate whether the ACTF is functionally valid within a federation of simulations, interfaces and tools fully capable of supporting battle command and institutional training for the BCT, UE(x), and UE(y) levels

- OREs evaluate whether the ACTF meets the capabilities and operational criteria to support battle command and institutional training for the Army at the BCT, UE(x), and UE(y) levels
Assessing the System

• Provide an annual independent System Assessment (SA) to support each materiel release decision

• Produce a final System Evaluation Report (SER) to support a decision on the ACTF objective system

• Leverage existing developer and user events to support the SAs and SER per the TESP
Components of the T&E Strategy

The ACTF T&E IPT supports the T&E process from development thru the fielding of each version release.
Reducing Test Costs & Improving Test Efficiency

- Minimizes testing by leveraging existing developer and user events

- Shared resources and facilities between the tester, developer and user

- Operational test is not feasible due to limited resources and availability of troops
Summary

This T&E strategy, as applied to the ACTF:

• Serves as a model process to be employed in the evaluation of future simulations developed for Army training

• Has combined traditionally separate testing into single integrated test events between the user, developer and tester

• Reduces time and resources to get a product to the soldier without compromising any of the traditional and sequential steps for review
## Authors

<table>
<thead>
<tr>
<th>Mr. Sean Buck</th>
<th>Mr. Frank Rhinesmith</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Army Test and Evaluation Command</td>
<td>U.S. Army Program Executive Office for Simulation, Training, and Instrumentation</td>
</tr>
<tr>
<td>U.S. Army Evaluation Center</td>
<td>12350 Research Parkway</td>
</tr>
<tr>
<td>4120 Susquehanna Avenue</td>
<td>Orlando, FL 32826</td>
</tr>
<tr>
<td>APG, MD 21005-3013</td>
<td>Phone: (407) 384-3634</td>
</tr>
<tr>
<td>Phone: (410) 278-0753</td>
<td>Fax: (407) 384-3660</td>
</tr>
<tr>
<td>Fax: (410) 306-1493</td>
<td><a href="mailto:frank.rhinesmith1@peostri.army.mil">frank.rhinesmith1@peostri.army.mil</a></td>
</tr>
<tr>
<td><a href="mailto:sean.buck@atec.army.mil">sean.buck@atec.army.mil</a></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr. Timothy Metivier</th>
<th>Mr. Jose Pagan</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Simulation Center</td>
<td>U.S. Army Program Executive Office for Simulation, Training, and Instrumentation</td>
</tr>
<tr>
<td>410 Kearney Avenue</td>
<td>12350 Research Parkway</td>
</tr>
<tr>
<td>Fort Leavenworth, KS 66027</td>
<td>Orlando, FL 32826</td>
</tr>
<tr>
<td>Phone: (913) 684-8160</td>
<td>Phone: (407) 384-3849</td>
</tr>
<tr>
<td><a href="mailto:timothy.metivier@leavenworth.army.mil">timothy.metivier@leavenworth.army.mil</a></td>
<td>Fax: (407) 384-3660</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:jose.pagan@peostri.army.mil">jose.pagan@peostri.army.mil</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LTC Clayton Daughtry</th>
<th>Ms. Lana McGlynn</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Simulation Center</td>
<td>McGlynn Consulting Group</td>
</tr>
<tr>
<td>410 Kearney Avenue</td>
<td>1805 Crystal Drive Suite 406</td>
</tr>
<tr>
<td>Fort Leavenworth, KS 66027</td>
<td>Arlington, VA 22202</td>
</tr>
<tr>
<td>Phone: (913) 684-8492</td>
<td>Phone: (703) 980-8546</td>
</tr>
<tr>
<td><a href="mailto:Clayton.daughtry@leavenworth.army.mil">Clayton.daughtry@leavenworth.army.mil</a></td>
<td><a href="mailto:lana.mcglynn@comcast.net">lana.mcglynn@comcast.net</a></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Questions?