DoD Modeling & Simulation Conference

Modeling & Simulation (M&S) Activities Way Forward

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Military Problem

- M&S not keeping pace with complexity of operations, e.g., Irregular Warfare, to experiment, test and train

- Need tools to better understand the non-kinetic battle space

- Inability to rapidly, accurately & realistically simulate “real world” environment

- M&S activities not configured to enable efficient support for USJFCOM overall mission

*We are only Evolving our simulation capability while the world is transforming*
Complexity of Managing Joint Modeling and Simulation

Current Gaps, Duplicity, & Lifecycle Issues
Joint Training Enterprise

19 ACCREDITED SERVICE TRAINING PROGRAMS
USA – 5
USN – 3
USMC – 4
USAF – 7

28 CERTIFIED SITES
25 CERTIFIED SYSTEMS

93 ACCREDITED TASKS

39 CONNECTED SITES
2 SITES (IN-PROCESS)
6 SITES PROGRAMMED FOR FY08

41 ON-SITE SUPPORT ELEMENTS

8 ACCREDITED COCOM JOINT TRAINING PROGRAMS
JFCOM UE
EUCOM
NORTHCOM
PACOM
SOCOM
SOUTHCOM
STRATCOM
TRANSCOM

596 SERVICE AND COCOM JOINT TRAINING SHORTFALLS
300 SOLUTIONS IMPLEMENTED
133 SOLUTIONS GENERATED

GLOBAL COLLABORATIVE INFORMATION ENVIRONMENT

MILITARY SERVICES
USJFCOM / SOCOM
JOINT STAFF J-7 / OSD

8 MANAGEMENT RESOURCES
JNTC JOINT MANAGEMENT OFFICE
JNTC STAKEHOLDERS
Vision Statement

USJFCOM will lead the Department of Defense in efficiently and effectively implementing a Global Synthetic Environment solution that enables Joint Capability Development.

The Global Synthetic Environment
✓ A persistent, globally distributed, multi-faceted, synthetic environment
✓ Accurate, realistic, and re-usable representations
✓ LVC data, architecture and standards
✓ Adaptable to changes within today’s battlespace
✓ Integrated with Joint Knowledge Online
✓ Operational systems enabled
Enabling Joint Warfighting Capability Development

Accomplishing Transformation

Global Synthetic Environment – Engine for Change

The Global Synthetic Environment enables realistic adaptive and agile experimentation, testing and training
FOC Global Synthetic Environment

Future Concepts

Capability Development

Joint Intelligence

Joint Training

Joint Systems Testing

Experimenation

FOC: A Single managed Live, Virtual Constructive Program Supporting all dimensions of joint warfighter capability development
Initial Conclusions

✓ Initial Study recommends J7 and J9 M&S Program Alignment under a single center with dual ownership under a board arrangement.

✓ Follow on study develop four areas of coordination for Initial Operating Capability (IOC) in 2008/2009:
  • Global Synthetic Environment evolutionary development and ops
  • Aligned Architecture and data strategy
  • Transformational M&S including High perf Computing
  • Aligned Technical Management Process

✓ Need to align activities now and improve through operational experience gained.
Benefits

✓ Improved M&S Capability
  • Irregular Warfare/Cyber/CBRNE/INTEL, etc

✓ Improved Operating Efficiency, one environment for Experimentation, Test and Training

✓ Improved ability to transition new capabilities to operational status

✓ Higher fidelity terrain

✓ More realistic representation

✓ Improved Management Leadership
Questions ?