THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-3010

ACQUISITION AND
TECHNOLOGY

NOV - 3

MEMORANDUM FOR: SEE DISTRIBUTION

SUBJECT: High Level Architecture (HLA) for Simulation Memorandum of Agreement (MoA)

I am pleased to approve the attached MoA and congratulate all of the signatories for adopting the HLA as the standard technical architecture for DoD simulation interoperability. This agreement attests to the fact that the HLA has gained the Department's simulation stakeholders' acceptance and strong support through tried and proven technical performance, capability, maturity and potential. Furthermore, the wide spread adoption of HLA is contributing not only to the military capability and readiness of US forces but also to a growing number of allied and friendly nations as well, laying a firm foundation for international interoperability. While further technical challenges lay ahead, this agreement will facilitate cooperative and complementary solutions that further enhance and broaden the uses of the HLA.

I direct each of the participants in this MoA to aggressively transition their simulations to HLA in the most expeditious and effective way, consistent with their interoperability requirements and resources. I also expect the DoD Executive Council for Modeling and Simulation (EXCIMS) to aggressively monitor and review the Department's progress in transitioning to HLA. Lastly, I charge the EXCIMS Chair with the responsibility to inform me if the commitment to HLA wavers.

As we move to DoD Component management of the HLA transition process, we will need to establish a new baseline. Accordingly, I request that each of the DoD Components report their progress transitioning to HLA as of December 31, 2000, to the DoD EXCIMS Secretariat by January 15, 2001.

My points of contact for this action are CAPT David C. Johnson (703-998-0660; djohnson@dmso.mil) and Mr. R. J. Mills (703-824-3410; BobMills@dmso.mil).

J. S. Gansler

Attachment:
HLA MoA

Distribution:
Service Secretaries
Under Secretaries of Defense
ASD(C3I)
PDUSD(AT&L)
Distribution (Continued):

Distribution (Continued):

DDR&E
DUSD(S&T)
Director, DMSO

cc:
DoD Executive Council for Modeling and Simulation
DoD M&S Working Group

THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-3010

ACQUISITION AND
TECHNOLOGY

SUBJECT: Memorandum of Agreement (MOA) on the High-Level Architecture (HLA) for DoD Simulations

References:
(a) USD(A&T) Memorandum, "DoD High Level Architecture (HLA) for Simulations," September 10, 1996
(b) DoD Directive 5025.1, "DoD Directives System," June 24, 1994
(c) DoD Directive 5000.59, "DoD Modeling and Simulation (M&S) Management, January 4, 1994, with Change 1, January 20, 1998
(d) Charter for the Executive Council for Modeling and Simulation (EXCIMS), approved March 1992
(e) DoD 5000.59-M, "DoD Modeling and Simulation (M&S) Glossary," January 1998

1. PURPOSE

This MOA:

1.1. Supersedes the HLA Policy memorandum (reference (a)) according to the provisions of DoD Directive 5025.1 (reference (b).)

1.2. Establishes the HLA as the technical architecture for interoperability and reuse among the signatories.

1.3. Establishes policies and procedures for:

1.3.1. Fostering the use of the HLA;

1.3.2. Reviewing HLA Transition Progress;

1.3.3. Resolving HLA issues;

1.3.4. Reviewing and changing this MOA; and,

1.3.5. Terminating this agreement

1.4. Provides for oversight of the HLA implementation process through the DoD M&S Management Structure established by DoD Directive 5000.59 (reference (c)) and The Charter for the DoD EXCIMS (reference (d)).

1.5. Provides for centralized policy-making and management oversight of the HLA transition process with decentralized execution by the DoD Components.

Attachment

2. APPLICABILITY

This MOA applies to organizations signing this MOA in the Office of the Secretary of Defense (OSD), the Military Services, the Chairman of the Joint Chiefs of Staff, the Defense Agencies, and the DoD Field Activities (hereafter referred to collectively as "the DoD Components").

3. DEFINITIONS

Terms used in this agreement are defined or explained in DoD Directive 5000.59, the EXCIMS Charter, and DoD 5000.59-M (respectively, references (c), (d) and (e)).

4. POLICY

We agree that:

4.1. The High Level Architecture (HLA) shall be the standard technical architecture for interoperability among DoD simulations and where the potential for reuse exists, any other alternative approach must be justified.

4.2. From the date of final approval of this MOA forward:

4.2.1. All new simulation developments shall be HLA compliant.

4.2.2. All planned upgrades or significant changes [to be defined by each DoD Component] shall be HLA compliant.

4.2.3. Existing non-HLA compliant simulations intended to be interoperable shall be HLA compliant based on DoD Component requirements, resources and priorities.

4.3. The DoD M&S Management Structure, the EXCIMS (defined in references (c) and (d)), shall maintain oversight of HLA through, but not limited to, periodic review of:

4.3.1. DoD Component policies and processes for transitioning their simulations to HLA.

4.3.2. The transition status of DoD Component legacy simulation systems.

4.3.3. The migration of the HLA technical architecture to national and/or international standards.

4.3.4. The HLA's technical evolution, the development of supporting tools, implementations, applications, and capabilities by the larger DoD M&S community.

4.4. DoD Components shall establish their own policies and processes for transitioning their simulations to HLA or excluding them based on requirements, resources, Component priorities, or security. All exclusions from HLA compliance shall be documented, justified by the DoD Component, and reported in periodic HLA transition status reports to the DoD EXCIMS.

4.5. Compliance with the HLA does not mandate the use of any particular implementation of supporting software.

4.6. Adjudication of issues or interpretations of this MOA shall be determined by consensus of the DoD M&S Executive Council. The final arbiter shall be the USD(AT&L).

4.7. Signatories to this MOA may terminate their participation with 6 months' notice to the USD(AT&L) and all other participants.

4.8. Participation in this MOA does not imply financial commitment to the development of the HLA, its related tools, and/or capabilities beyond those resources the participating DoD Component is willing to commit.

5. ADMINISTRATION AND MANAGEMENT

This MOA shall be:

5.1. Approved by the Component's Senior Executive Service and/or Flag Officer EXCIMS Member.

5.2. Formally reviewed for update at intervals of not more than three years from the last date of approval; each review shall be documented.

5.3. Modified as needed to meet the needs of the participants; however, all changes shall be formally staffed and documented.

5.4. Maintained by the EXCIMS Secretariat as the Office of Record for this MOA.

5.5. Implemented by the DoD Components within 6 months of approval of this MOA.

6. EFFECTIVE DATE

This MOA is in effect when signed by the signatories.

DoD Executive Council for Modeling and Simulation Members

Delores M. Etter
Deputy Under Secretary of Defense
(Science & Technology)
Chair

James L. Johnson
Deputy Director
Theater Assessments & Planning
OUSD(C)/CFO Representative)

John R. Landon
Principal Director,
C3ISR and Space
OASD(C3I) Representative

Vincent P. Roske, Jr.
Deputy Director, Wargaming,
Simulation & Analysis, J-8
Chairman, Joint Chiefs of Staff Representative

Walter W. Hollis
Deputy Under Secretary of the Army
(Operations Research)
Army Representative

L. E. Fishburne
Rear Admiral, U.S. Navy
Deputy Director and Fleet Liaison,
Space, Information Warfare, Command
and Control
Navy Representative

William J. Begert
Lieutenant General, USAF
Assistant Vice Chief of Staff
US Air Force
Air Force Representative

M. P. Bailey
Technical Director,
Training and Education Command
Marine CCDC (C-45T)
Marine Corps Representative

DoD Executive Council for Modeling and Simulation Members (Continued)

Thomas K. Longstreth
Deputy Under Secretary of Defense
(Readiness)
OUSD(AT&L) Representative)