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To james.mccall@mesa.afmc.af.mil

cc robert.lutz@jhuapl.edu, katherine.l.morse@saic.com, Michael
Kipness/STDS/STAFF/US/IEEE,

bcc

Subject Approval of Project - P1730

01 October 2007

James M. McCall
General Dynamics Information Technology
Warfighter Readiness Research Division
Air Force Research Laboratory
6030 South Kent St
Mesa, AZ USA
james.mccall@mesa.afmc.af.mil

Re: P1730 - Recommended Practice for Distributed Simulation Engineering and Execution
Process (DSEEP)

Dear James:

I am pleased to inform you that on 27 September 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1730.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

Rosters can be submitted in any format to the NesCom Administrator (nescom-admin@ieee.org). Please forward this list to the NesCom Administrator via e-mail at nescom-admin@ieee.org no later than 26 December 2007.

Or, for your convenience, you can manage your standards development roster in myProject. Instructions are as follows:

- Go to myProject - <https://development.standards.ieee.org/my-site>
- Login using your IEEE Web Account username and password.
- Once logged into myProject, go to "Manage Committees"
- Drill down to the project by clicking the (+) on the left to expand each level. The actual project will be highlighted in yellow
- Click "Manage Committees" for that project. A list of individuals enrolled in the

Committee/Project will appear. On this screen you can assign whether a person is a Participant, a Non-Voting Member or a Voting Member of the project group. You may also view contact information for that individual.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any questions, please contact the NesCom Administrator via e-mail at nescom-admin@ieee.org or via telephone at +1 732 562 3806.

Sincerely,

NesCom Admin
Standards Activities
Email: nescom-admin@ieee.org

PAR Request Date: 21 August 2007

PAR Approval Date: 27 September 2007

PAR Signature Page on File: Yes

Type of PAR: Revision to IEEE Standard

Status: Revision to an Existing IEEE Std 1516.3-2003

Root Project:

1.1 Project No.: 1730

1.2 Type of Document: Recommended Practice

1.3 Life Cycle: Full-Use

1.4 Is this document in ballot now? No

2.1 Title

Recommended Practice for Distributed Simulation Engineering and Execution Process (DSEEP)

3.1 Working Group Name [Distributed Simulation Engineering and Execution Process Working Group](#)

Working Group Chair
[Lutz, Robert R](#)
 Phone: 240-228-7599
 Email: robert.lutz@jhuapl.edu

Working Group Vice Chair

3.2 Sponsor [IEEE Computer Society Simulation Interoperability Stds Organization/Stds Activities Committee \(C/SI\)](#)

Sponsor Chair
[McCall, James M.](#)
 Phone: (480) 988-6561 x231
 Email: james.mccall@mesa.afmc.af.mil

Name of Standards Liaison Representative (if applicable)
[Morse, Katherine L](#)
 Phone: 858-826-6728
 Email: katherine.l.morse@saic.com

3.3 Joint Sponsor

4.1 Type of Ballot: Individual

4.2 Expected Date of Submission for Initial Sponsor Ballot: November 2008

4.3 Projected Completion Date for Submittal to RevCom: February 2009

5.1 Approximate number of people expected to work on this project: 36

5.2 Scope: This recommended practice defines the processes and procedures that should be followed by users of distributed simulations to develop and execute their simulations; it is intended as a higher-level framework into which low-level management and systems engineering practices native to user organizations can be integrated and tailored for specific uses.

Old Scope: This document defines the processes and procedures that should be followed by users of the High Level Architecture (HLA) to develop and execute federations. It is not intended to replace low-level management and systems engineering practices native to HLA user organizations, but is rather intended as a higher-level framework into which such practices can be integrated and tailored for specific uses.

5.3 Is the completion of this document contingent upon the completion of another document? No

5.4 Purpose: The purpose of this standard is to integrate the process descriptions of multiple simulation communities developed in support of specific projects (e.g., DIS, TENA engineering process) to ensure that the DSEEP continues to provide the high-level framework from which all other domain-specific simulation development processes can be derived. This includes both the FEDEP (IEEE 1516.3-2003) and IEEE 1278.3 – Recommended Practice for Distributed Interactive Simulation – Exercise Management and Feedback.

Old Purpose: The High Level Architecture (HLA) has been developed to provide a common architecture for modeling and simulation. An HLA federation is a named set of software applications (federates) that interact via the services of the HLA Runtime Infrastructure (RTI) in accordance with a common object model in order to achieve some objective (or set of objectives). The purpose of this document is to provide the HLA user community with a recommended practice for how HLA federations are developed and executed.

5.5 Need for the Project: The IEEE 1516 series of HLA specifications (Rules, OMT, Interface Specification) together define a standard technical architecture for the development of HLA federations. However, there is much more to building HLA-based distributed simulation environments than what is explicitly covered by the HLA specifications. The IEEE 1278 series of DIS specifications (Applications, Communications Services and Profiles) together define the architecture for DIS Exercises. IEEE 1278.3, Recommended Practice for Distributed Interactive Simulation - Exercise Management and Feedback only addresses the latter stages of a DIS Exercise development. For instance, activities such as requirements development, conceptual modeling, scenario development, and integration and testing activities are all critical to the successful development of a distributed simulation, but are clearly outside of the scope of the three core HLA specifications and the DIS standards and recommended practices. Such guidance is essential for distributed simulation users to address the full range of activities that are required, how those activities relate to one another, and how to make proper use of the existing protocols and standards within the distributed simulation development process. IEEE 1516.3 and IEEE 1278.3 currently provide portions of this guidance tailored to the unique approaches they support. The distributed simulation community needs a common framework that allows for tailoring across both DIS and HLA simulations and is extensible to other evolving distributed simulation architectures.

5.6 Stakeholders for the Standard: Users of the current IEEE 1516.3 and IEEE 1278.3 standards as well as users of other distributed simulation architectures such as TENA.

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes Presented Date: 2007-03-29

If no, please explain:

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No

If yes, please explain:

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No

If yes, please explain:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

7.2 Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? ? No

Technical Committee Name and Number:

Contact person:

Contact person Phone Number:

Contact person Email Address:

7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

7.4 Additional Explanatory Notes:

The FEDEP was originally developed under the sponsorship of the Defense Modeling and Simulation Office (DMSO), and was first published September 1996. Since that time, there were several DMSO-sponsored releases of the FEDEP (the last in February 1998), and the IEEE standard for the FEDEP was approved in April 2003. Based on the feedback of users (as articulated through a wide assortment of technical papers and discussions at various conferences and workshops), there is no question that the community has made extensive use of this product over the past ten years, and that there is a strong need to actively maintain the product. This product will implement a set of changes to the original IEEE 1516.3 IEEE Recommended Practice for High Level Architecture (HLA) Federation Development and Execution Process (FEDEP) and IEEE 1278.3 – Recommended Practice for Distributed Interactive Simulation – Exercise Management and Feedback based upon the evolving needs and requirements of the distributed simulation user community. SISO SAC requests a renumbering of the FEDEP to reflect the change in its scope as it evolves to the DSEEP. Items 2.1 and 5.2: SISO SAC requests a renumbering of the FEDEP to reflect the change in its scope as it evolves to the DSEEP.

8.1 Sponsor Information:

Is the Scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain: