

Test & Evaluation Overlay for the Distributed Simulation Engineering & Execution Process (TEO-DSEEP) Study Group (SG) Overview

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- Rationale
 - The DSEEP is a tailorable systems engineering standard for developing simulation federations. The DSEEP intentionally doesn't focus too closely on the needs of particular domains or set of users, but rather is intended as a high-level process framework.
 - A domain in need of specific guidance is formal system Test and Evaluation (T&E).
 - The simulation environment may be an asset in the T&E infrastructure.
 - The simulation environment may itself serve as a surrogate for the system under test.
- Study Group Goals
 - Solicit community input to the preliminary overlay developed by the primary proponents
 - Determine the desirability and feasibility of establishing a SISO Product Development Group to standardize TEO-DSEEP
 - Because this will be an overlay to IEEE 1730, standardization through IEEE will be required.

Summary of Step 5

Step #	Title	Description	T&E Overlay Description
5	Integrate and Test Simulation Environment	Plan the execution of the simulation environment, establish all required interconnectivity between member applications, and test the simulation environment prior to execution.	<i>Plan the simulation environment execution, establish all required interconnectivity between member applications within the test environment, and test the simulation environment prior to execution of the program level test event.</i>
5.1	Plan execution	Fully describe the execution environment and develop an execution plan.	<i>...consistent and integrated with program level elements.</i>
5.2	Integrate Simulation Environment	Bring all of the member applications into a unifying operating environment.	<i>...consistent and integrated with program level elements.</i>
5.3	Test Simulation Environment	Test that all of the member applications can interoperate to the degree required to achieve core objectives.	<i>Test that all of the simulation environment participants can interoperate to the degree required to achieve simulation environment objectives including interoperating with the test environment.</i>

Reference 3 contains the summaries of all steps and activities.

References

1. Katherine L. Morse and Paul N. Lowe, “Advancing the Federation Development and Execution Process (FEDEP) for Simulation Based Acquisition (SBA),” Proceedings of the 2007 Fall Simulation Interoperability Workshop, Orlando, FL, September 16 – 21, 2007.
2. Katherine L. Morse and Paul N. Lowe, “Toward a T&E Overlay for the FEDEP,” Proceedings of the 2009 Fall Simulation Interoperability Workshop, Orlando, FL, September 20 – 25, 2009.
3. Paul Lowe, Katherine L. Morse, Rich Reading, and Sarah Epps, “Toward a T&E Overlay for the DSEEP,” Proceedings of the 2010 Spring Simulation Interoperability Workshop, Orlando, FL, April 12 – 16, 2010.