

ARMY PROGRAMS

Joint Simulation System (JSIMS)

The Joint Simulation System (JSIMS) is a single, distributed, and seamlessly integrated simulation environment that permits integration of real-world and simulated assets of the U.S. Military Services and their allies on a virtual battlefield. The JSIMS virtual battlefield is simulated by a High Level Architecture compliant federation of component models. The component models include the National Air and Space Model, Warfighters' Simulation (WARSIM), WARSIM Intelligence Model, JSIMS Maritime, the Defense Intelligence Agency's Deployable Intelligence Simulation for Collaborative Operations, Joint Signals Intelligence Simulation, and National Simulation. JSIMS is to provide a real-time simulation capability that can be configured for use in exercises of differing durations, scenarios, and complexities. It interfaces with real-world Command, Control, Communications, Computers, and Intelligence (C⁴I) systems, providing a training environment that is transparent to the training audience. JSIMS is to include scenarios that reflect the transition of military forces into less conventional roles such as multi-national peacekeeping and humanitarian assistance. At Initial Operational Capability, JSIMS will be an accredited simulation environment to support joint training for unified combatant command staffs, joint task force (JTF) commanders and staffs, and JTF component commanders and staffs. At Full Operational Capability, JSIMS is to evolve to support professional military and senior officer education, mission planning, mission rehearsal, and doctrine development.

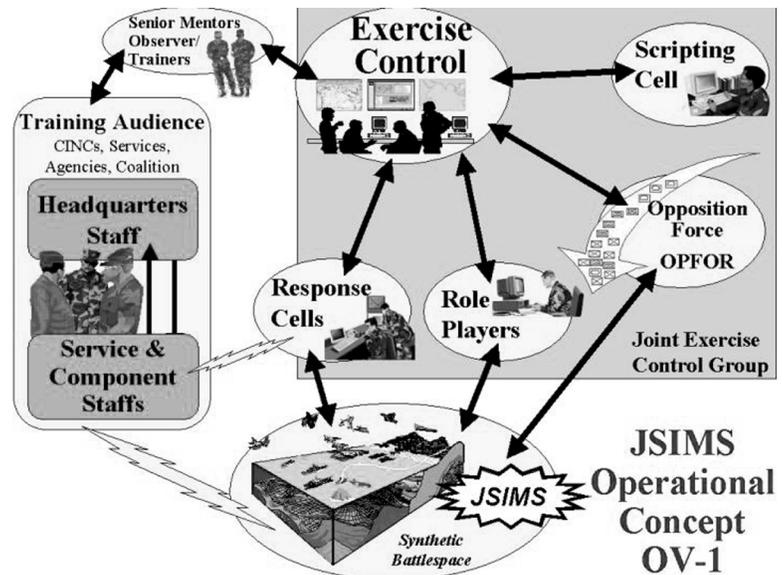
TEST & EVALUATION ACTIVITY

The JSIMS program announced a schedule breach in June 2002 that resulted in slipping the Initial Operational Test and Evaluation from FY03 into FY04, rescheduling the various development test events, and a 6-month slip in the Joint Warfighting Center's Validation event which is now scheduled to begin in January 2003.

During FY02, the Alliance Executive Office completed the last three of five integration events leading up to the completion of JSIMS Block 1 development. Performance runs were made concurrently with development during the final integration event. Results from the performance and stability runs made in 1QFY03 supported the test readiness review (TRR) on October 31, 2002. The Program Office was unable to meet the entrance criteria at the TRR and was directed to do additional runs to show the federation could operate as intended regarding stability and performance before JSIMS could enter into the Systems Test (i.e., the government developmental test). The Systems Test is now scheduled to begin in December.

As a result of concerns expressed over small scope of the Systems Test, the JSIMS Program Office and the Joint Warfighting Center will conduct a Full Systems Test following Validation that will demonstrate the ability of JSIMS to support a typical Joint Staff exercise of the size expected in the MultiService Operational Test and Evaluation and future training events.

The Test and Evaluation Integrated Product Team revised the draft Test and Evaluation Master Plan (TEMP) to reflect changes in the schedule, Operational Test and Evaluation (OT&E) strategy, and organizational responsibilities. The JSIMS



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Program Manager submitted the draft TEMP for coordination at the end of the 4QFY02. OSD has asked the Program Office to review the TEMP again and adjust it to include recent changes in test schedules and addition of events like the Full Systems Test.

TEST & EVALUATION ASSESSMENT

The schedule slip has had a positive impact on the OT&E strategy in that the schedule now supports a true baseline event during which performance of the Joint Training Confederation, the legacy training simulation, can be measured. DOT&E was instrumental in introducing the concept of a baseline-to-JSIMS comparison into the OT&E strategy during the initial TEMP development. The Navy's Operational Test and Evaluation Force agreed to this aspect of the strategy when they assumed the responsibility of lead operational test agency.

Integration events have proven more difficult than anticipated by the Alliance Executive Office, and significant software problems were still being identified toward the end of the final integration event for Block 1. As a result, the risk to maintaining the schedule for Block 1 development and the Full System Test remains high.

Initial performance runs have demonstrated the difficulty of initializing a large federation representative of training exercise configuration, the difficulty of operating in a classified configuration using the common security services, and the lack of stability across the network and with individual federates.