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**Synthetic Theater of War (STOW) Engineering Demonstration-1 (ED-1) Final Report**

Authors: [T. R. Tieman](#); [NAVAL COMMAND CONTROL AND OCEAN SURVEILLANCE CENTER RDT AND E DIV SAN DIEGO CA](#)

**Abstract:** This report describes results of Engineering Demonstration-1 (ED-1), which was conducted 17-20 October 1995. ED-1 was conducted on both the Advanced Communication Technology Satellite (ACTS), Asynchronous Transfer Mode (ATM), Internetwork (AAI)/Advanced Technology Demonstration Network (ATDNet) and the Defense Simulation Internet (DSI), over a period of 2 days. The Synthetic Environment demonstration portion of ED-1 successfully demonstrated the following environmental effects: illumination flares, signal flares, and signal smoke; dynamic time-of-day; wind effects (velocity and direction); concertina wire; battlefield smoke and obscurants; minefield breaching; antitank ditch breaching, dust storm, rain, fog, and haze; pre-emplaced survivability positions and obstacles; and multistate objects (bridges/buildings). The Synthetic Forces demonstration portion of ED-1 successfully demonstrated the following: five ships-maneuvering and damage; sensors and weapons functionality; 18 new Marine Corps entity types; embark/disembark functionality; suppressive fire; attachment IFOR-FWA Defensive Air, CAS combined strike; RWA-armed reconnaissance attack IFOR FWA reacted correctly to unexpected interactions; FAC worked well; bridges were destroyed, providing a barrier to ground vehicles; tanks deployed smoke, changed speed/formation when entering, leaving smoke screen; FO-detected, classified, and reported; company team commander received/sent CCSIL messages; planned/replanned missions; very stable.

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