

RAHMORS Presentation on HLA Applications

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The Space and Missile Defense Battle Lab Studies and Analysis Branch, supported by the Depth and Simultaneous Attack Battle Lab, has undertaken a project to demonstrate the feasibility and value of employing interactive models in a simulation to balance the two active pillars of Theater Missile Defense (TMD), Active Defense (AD) and Attack Operations (AO). The Extended Air Defense Simulation (EADSIM) is the recognized premier theater air and missile defense functional model. FireSim XXI is the recognized artillery model counterpart to EADSIM. A federation of these two models using the HLA procedures and protocols was built during the summer of 2000. A proof-of-principle set of studies has been completed to investigate the interactions of the simulation object models (SOMs) for performance and repeatability. While run-time is at near real-time speed, the model outputs appear to be both credible and repeatable.

There are families of models developed to perform analysis within each of the pillars however, with the exception of BM/C4I, there are no models available to interactively study the effects of the pillars on the overall TMD system performance.

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