Linking Advanced Distributed Simulations with Flight Testing

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Abstract: The test and evaluation community is relatively new to Advanced Distributed Simulation Technology (ADS). Each facility participating in the JADS program has independently developed a method for testing specific aspects of various weapons systems. The MISILAB, which organizationally is part of the OWEF, but is located in a separate facility, has supported AMRAAM simulations and characterizations over the past decade. The CCF has supported real-time mission control, and monitoring functions providing pre and post-flight analysis in the DOD community for the past 40 years. The PRIMES Test Facility has been involved in the ground testing of munitions systems, Electronic Warfare (EW), and Electromagnetic Interference (EMI)/Electromagnetic Compatibility Testing (EMC) for the past 17 years. The challenge was to develop a network architecture which would interface to the legacy systems in each test facility in a real-time distributed environment.

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