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"Adapting C2 to the 21st Century"
TADIL TALES:
Modeling Tactical Data Links for Command and Control Training
Data Link Modeling and Simulation
Distributed Command and Control Training
Joint Forces Warfighter Training

Joe Sorroche
Distributed Missions Operations Center (DMOC)
ASRC Communications, Ltd.
4500 Aberdeen Dr., SE, Building 942
Kirtland Air Force Base, NM 87117
505-853-0372, DSN 263-0372
joe.sorroche@kirtland.af.mil

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ABSTRACT: The US Air Force Distributed Mission Operations (DMO) concept continues to be the most successful application of Modeling and Simulation (M&S) for warfighter training. The program extends beyond individual pilot or crew training to include the entire real world operations spectrum. One important component of DMO is Command and Control (C2) training. Until recently, DMO C2 training requirements were difficult to meet because there were no accurate tactical data link simulation models. Now, C2 training requirements are met due to the recent development of modeling real world tactical data links. Development started with modeling Link 16, thus creating "Tactical Digital Information Link Technical Advice and Lexicon for Enabling Simulations" (TADIL TALES). TADIL TALES provides a simulated model for Link 16 using the Distributed Interactive Simulation (DIS) and High Level Architecture (HLA) simulation protocols.

The "TADIL TALES" format has been verified by experiments conducted during Joint Expeditionary Force Experiment (JEFX) 04 and JEFX 06, and was incorporated into the recently approved Simulation Interoperability Standards Organization (SISO) standard SISO-STD-002. This standard is now widely used for Link 16 C2 training in DMO events, which now include the U.S. Army, Navy, Marines, and Joint Coalition warfighters. By using the TADIL TALES format, other C2 tactical data links can be represented in the DIS and HLA simulation protocols

This paper describes the TADIL TALES formats for DIS and HLA and how other data links are being modeled, thus creating a new class of tactical data link simulation standards for DMO C2 warfighter training.