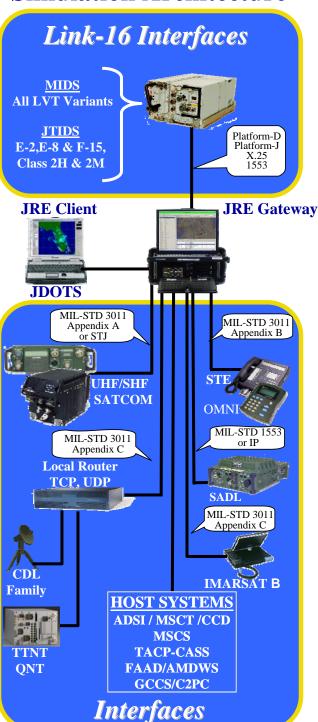
Simulation Architecture



The Joint Range Extension (JRE) is the warfighter's premier gateway of choice, providing multipoint, interoperable, long-haul communications data exchange. JRE has exceptionally supported the warfighter with a combat-proven BLOS gateway directly facilitating Distributed Mission Operations (DMO) for over five years. Now, JRE is evolving by implementing a simulation and training development tool called Joint Distributed Operational Training System (JDOTS).

JDOTS Capabilities support:

- ► Link-11 and Link-16 Training
- •Air & Space Operations Center (AOC) training
- Maritime Operations Center (MOC) training
- ■Control & Reporting Center (CRC) training
- Aircrew training (C2, Fighter & Bomber)
- Dynamic Targeting/Time Sensitive Targeting
- Distributed connectivity for simulation activities
- ➤ Data Extraction Reduction Guide (DERG) analysis
- ➤ Interactive simulation capability

L-3 Communications (C2S2) has partnered with Aerosystems International (AeI) to provide an easy to use dynamic simulation tool that promotes flexible data link training. JDOTS is this vision and directly interfaces with JRE to provide combat warriors the ability to train daily as they would fight in combat.

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<u>Approved for public release; distribution is unlimited;</u> ESD-040003 66ABW-2009-0179

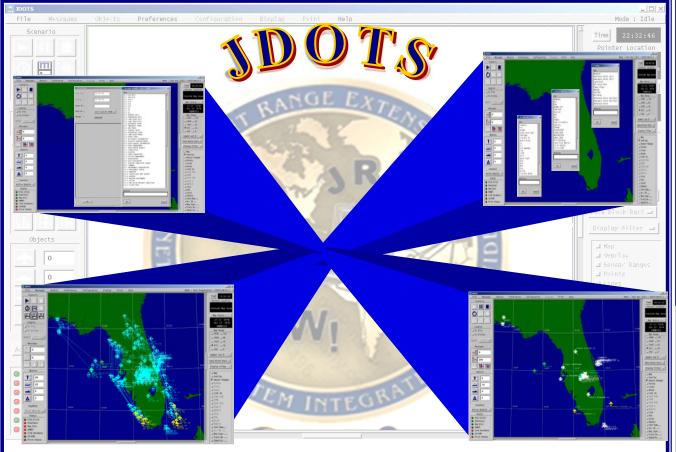
Joint Distributed Operational Training System Simulation & Training

Simulation & Training Tool



oint
Range
Extension

Beyond Line of Sight Link-16 Gateway



- Create complete Link-11 and Link-16 scenarios connect to JRE route data to the tactical edge for realistic training
- >JDOTS databases implement the full message catalog for MIL STDs-6011 & 6016 (B/C)
- SIMPLE Management and Routing Protocol (SMART) provides supports realistic two-way connectivity/information exchange
 - •JDOTS-to-JDOTS
 - JDOTS-to-JRE
- Connect with other JDOTS nodes via SIMPLE protocol for real time white cell interactive modeling/simulation execution
- ➤ Virtually unlimited amount of connections using SIMPLE protocol, integrating workstations in a distributed environment
- Create and modify scenario maps zoom in or out within a 4096 X 4096 dm square area of operation
- Create and modify unique databases containing message defaults and platform definitions using the database editor
- Create prescript, timed messages or develop messages "on the fly" interactively producing robust exercise training affects
 - Send/receive receipt compliance (RC) messages machine receipt/ask operator perform digital tasking from C2 to cockpit
 - Create/send engagements, Threat Warnings, Sorting, Pairing, Handovers, Electronic Warning, Platform Status and more.
 - Add/delete tracks and modify scenarios during simulation operations create/send J28.2 free text messages
 - Activate/deactivate simulated units, hook tracks, view engagement/correlation lists and view scenario configuration summary
- Draw lines and paste symbols (cities, radar, airfields, etc.) and add labels when developing scenarios
- Use picture in picture map feature for enhanced viewing pleasure for scenario generation or replays

JOOTS TRAIN LIKE YOU FIGHT INSEED



- Implements STANAG 5602 Protocol
- **✓ Connect to JRE via SIMPLE J**
- **✓** Connect to other JDOTS Nodes

