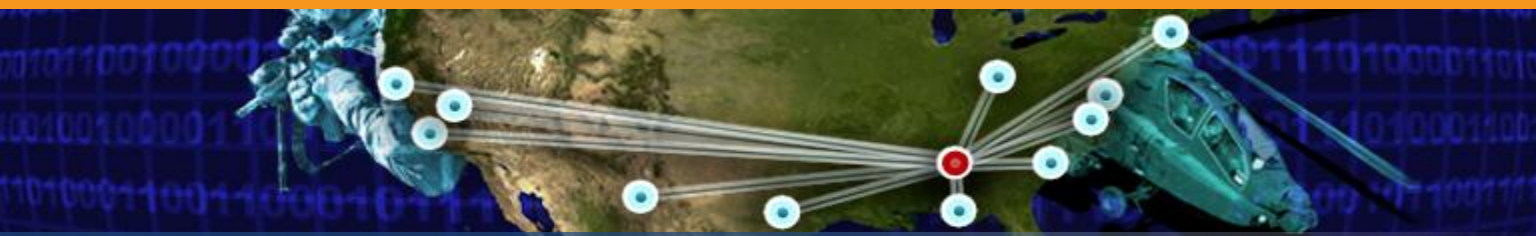# Distributed Tests and Modeling & Simulation

RTC's distributed testing and modeling & simulation capability is centered around the Distributed Test Control Center located in building 4500 on Redstone Arsenal. The DTCC is RTC's central point for integration in connecting distributed systems. For test events both internal to RTC and with outside organizations, it serves as the RTC command and control, communication, data acquisition, and visualization center. The DTCC operates globally at various classification levels on multiple distributed test networks. This state of the art facility serves as the hub connecting all RTC ranges and labs through reliable, robust and high capacity connectivity. It is the central access point to and from RTC assets and other organizations around the world. DTCC engineers and computer scientists provide subject matter expertise for networks and simulation architecture as well as for RTC's High Performance Computer asset which resides in the DTCC and provides computational power for the center.

Core Competencies

- Distributed Test Networks
  - DREN, SDREN, JIOR, JOIN, CFBLNet, Cross Domain Solutions
- Modeling & Simulation Suite
  - OneSAF, ExCIS, MATREX, UAS Sim, EO/IR Sensor Sims
- Man-in-Loop Interfaces
  - Reconfigurable RWA simulator
  - Small Arms Threat Sims
- JSTEN
  - Link-16, Blue Force Tracker
  - Standard Common Data Link
  - Mode 5, WNW, SRW
- High Performance Computing
  - Unclassified / Secret
  - Coalition Computing Resources
- Data Acquisition
  - NSITE
  - JMETC tools
  - MAK tools

Joint Scalable Tactical Emulation Network

The JSTEN combines parallel computing resources with a scalable, high fidelity network emulation and a computer-generated forces model to represent, in a virtual space, tactical networks, force movements, interactions, and communication loads to live systems under test. This network emulation allows interfacing real hardware with virtual components to produce operationally realistic numbers of network nodes.

TACTICAL	M&S	TECHINCAL CONTROL

DATA COLLECTION

PROTOCOL GATEWAY

TEST SUPPORT NETWORK

STANDARDS • SECURITY • CROSS DOMAIN SOLUTION
VV&A • INFORMATION • CONFIGURATION MANAGEMENT