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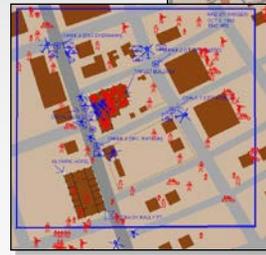
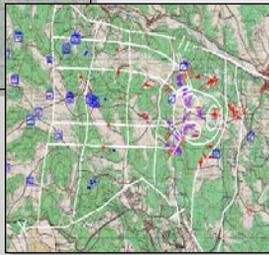
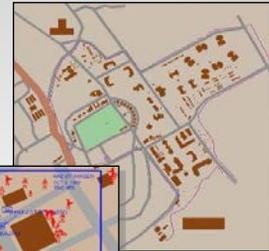
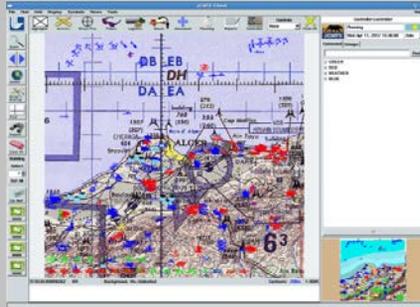
JCATS

Joint Conflict And Tactical Simulation



JCATS Customers

- Joint Staff J7
- US Army JLCCTC ERF Sites Worldwide
- 29 Palms
- -MCTOG Academic
- -Sim Center
- U.S. Army SMDC
- GDLS Battle Lab
- III Corps BCTC
- I Corps BCTC
- ARCENT, G7 Sim DIV
- HQ Air Force SFC
- JMSC /EUCOM Simulations Center
- 2 BCT 75th ID
- XVIII ABN Corps BSC
- JRTC/NTC
- NATO Modeling & Simulation Group
- DTRA
- Sandia National Labs
- Savannah River Site
- Idaho Nat'l Laboratory
- Fort Sam Houston
- B&W Y-12 DoE
- Hanford Site
- USSOUTHCOM J861
- MAGTF STP
- Naval Post Graduate School
- US Navy Strategic Systems Program
- Camp Casey, Korea
- BCTC, HI
- BCTP OPS GRP B,C
- FT Indiantown Gap
- FT Campbell, KY
- Camp Dodge BCTC
- FT Riley, KS
- USAF-DMOC
- West Point, NY
- Boeing
- 2/75th TNG Div, FT Dix, NJ
- 5/75th TNG Div, Camp Parks, CA
- FT Bliss, TX
- FT Carson, CO
- FT Huachuca
- FT Stewart, GA
- USSOCOM
- USPACOM J731
- USAF-DMOC
- USAF Force Protection Battle lab



JCATS is a joint multi-sided, real-time, stochastic, high resolution, interactive computer based simulation system that models force interactions from the Joint Task Force level to the individual person. It is a physics and data-based simulation that accurately replicates entity-level combat. The model employs the same terrain data used in the military Command & Control mapping systems. It employs validated military data and algorithms for digital terrain, Army Acquisition modeling, and Joint munitions data. JCATS accurately represents observation, sensor systems, weapons, munitions, and vehicle systems for land, sea, and air components. The model is DIS and HLA compliant which facilitates linking with other military simulation models. Below are some major capabilities of JCATS:

- | <u>LAND</u> | <u>AIR</u> | <u>SEA</u> |
|--------------------------|-------------------------|------------------------------|
| • Maneuver | • Interdiction | • Surface-Land Fires Support |
| • Direct/Indirect Fire | • CAS, Escort | • Amphibious Operations |
| • ADA/TBM/CM | • Counter Air | • Submarine Warfare |
| • Engineering Operations | • Air Refueling | • Anti-Submarine Warfare |
| • Logistics Operations | • Airlift/Airdrop | • Naval Aviation |
| • Casualty/Maintenance | • Airborne Surveillance | |



Lawrence Livermore National Laboratory
 7000 East Avenue MS L-060
 Livermore, CA 94550
 COMM: (925) 422-2052 or 424-5654
 Email: Support@odo.llnl.gov





JCATS

Joint Conflict and Tactical Simulation



Current Uses

- Primary Ground Constructive driver for JLVC
- US Army Joint Land Component Constructive Training Capability (JLCCTC) Entity Resolution Federation (ERF)
- COCOM Joint Training
- Coalition Training
- Mission Rehearsals
- Site & Border Security
- Battle Staff Training
- Peacekeeping
- Counter-terrorism
- Counter-drug
- Disaster Relief, Floods, Earthquake
- Chem/Bio
- NEO/Hostages
- Civil Support
- Evacuation Plans
- Crowd Control
- Logistics
- Area/Bldg Security
- Analysis
- Experimentation

The JCATS software runs on Red Hat Linux Enterprise and runs on both desktop and laptop computers. JCATS allows dynamic control of entity capabilities and activities in the battle space. It is a person-on-person simulation with live opponents replicating enemy tactics and responses. Leaders are able to control their forces on an individual workstation and use their actual C2 systems to report to their commanders and higher headquarters. JCATS can provide the means to ascertain the full impact of systems and tactics on the battlefield. JCATS has an extended overview of the playbox that is scalable, multi-resolution terrain (2400KM by 2400KM), capable of representing enhanced urban environment with individual building construction (floor plans, windows, doors, keys, locks, tunnels, etc.). JCATS creates a detailed simulated picture with simultaneous individual and aggregate engagements that are tracked at the entity level. The model has entity fidelity with individual weapons, platforms, sensors, munitions, human health, training, fatigue factors, and individual logistics. JCATS is the primary ground maneuver simulation model used by the U.S. Army in their Entity Resolution (ERF), Live Virtual Constructive Integrating Architecture (LVC-IA) and the U.S. Joint Staff J7 Joint Live Virtual Constructive (JLVC) federations.

Ongoing Improvements

- JCATS Web Client
- JLVC HLA Federation
- JCATS Standard Database
- JCATS synch w/ JTDS
- Reducing operator workload
- Introducing automated behaviors
- Robust editing tools
- Enhance ability to distribute
- Enhance the Digital Battlefield
- Enhance the Air Model
- Enhance the Naval Model
- Enhance analytical capabilities
- Homeland security features
- Complete set of manuals

International Users

- | | |
|--------------|----------------|
| • Turkey | • Estonia |
| • Canada | • Taiwan |
| • Singapore | • NATO HQ |
| • Nigeria | - Norway |
| • Romania | - Poland |
| | - Netherlands |
| • Ukraine | • Croatia |
| • Denmark | • Jordan |
| • Oman | • Slovenia |
| • Bulgaria | • Saudi Arabia |
| • Lithuania | • Georgia |
| • Azerbaijan | • Serbia |
| • Italy | • Uzbekistan |
| • Bosnia | • Albania |
| • Australia | • Colombia |
| • Macedonia | • Poland |



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