

Providing Combined Training Solutions for the Australian Armed Forces

Cubic Defense Applications is providing unprecedented training capabilities for the Joint Combined Training Capability (JCTC) effort, a major U.S.- Australia initiative to enhance joint and bilateral training.

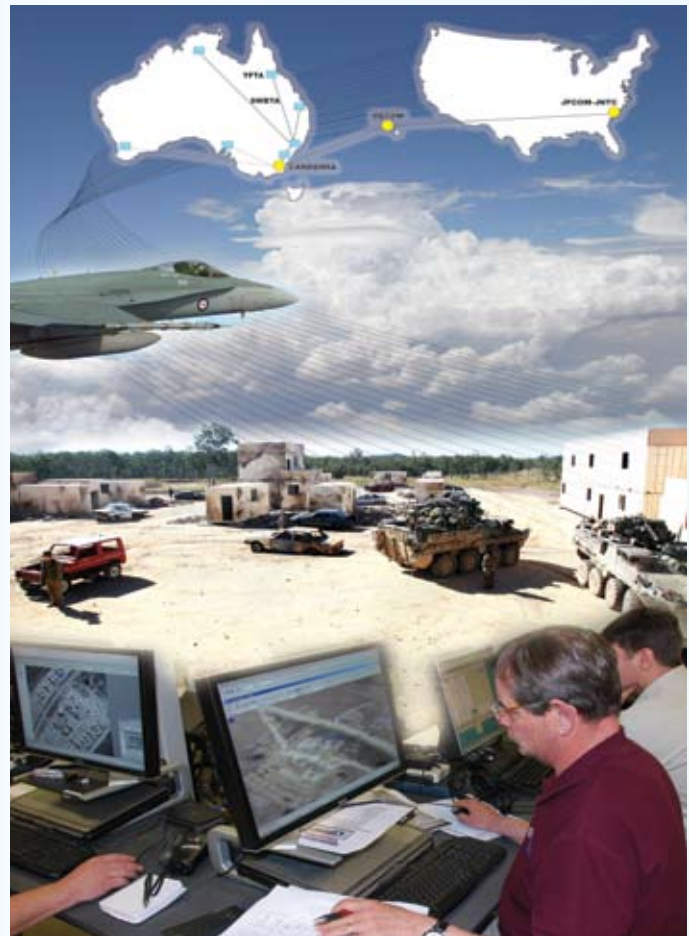
JCTC is designed to network the two allies' virtual, computer-based training systems and live combat training systems to enhance situational awareness, feedback and objective performance measurement. This network will link training management systems, training areas, simulations, headquarters and units.

The JCTC was officially recognized by Australia's Minister for Defence, the U.S. Pacific Command and U.S. Joint Forces Command during Talisman Sabre 07 at Shoalwater Bay Training Area in June 2007.

Cubic played a major role in linking U.S. and Australian live, virtual and constructive training environments. Some of the groundbreaking capabilities Cubic provided included:

- Air-ground weapons effects simulation: The ability for an F/A-18 aircraft equipped with Air Combat Maneuvering Instrumentation (ACMI) to drop a virtual bomb on live instrumented soldiers or vehicles, with real-time casualty assessment and soldier feedback.
- Interoperable lasers: The capability for the U.S. and Australia laser-based MILES/Tactical Engagement Systems to be interoperable during training.
- Indoor tracking capability: Infrared trackers enabled for U.S. and Australian training command and control instrumentation systems to monitor the location and actions of soldiers wearing player instrumentation as they moved throughout the Urban Operations Training Facility (UOTF).
- Indoor weapons effects: Shoot through walls, blast, smoke and various other effects to bring greater realism to training.

Cubic used its expertise in complex system integration and common architectures such as HLA (High Level Architecture), DIS (Distributed Interactive Simulation) and TENA (Test & Training Enabling Architecture), as well as its vast experience in live instrumentation, in the development of the groundbreaking JCTC capabilities.



During the exercise, Cubic provided its Initial Home-station Instrumentation Training System (I-HITS) including the MILES laser-engagement system deployed with the U.S. Army, and the Pacific Air Forces (PACAF) ACMI system deployed with U.S. Marine Corps attack squadron VFMA 212.

Major Australian systems included the Cubic-developed Land-134 deployable Combat Training Centre with the Tactical Engagement Systems (TES), the Urban Operations Training Facility (UOTF) instrumentation and the newly delivered Royal Australian Air Force ACMI system.