

Secure Communication for the Warfighter – in the Air and on the Ground Today & in the Future



The Cornet Technology, Inc. (CTI) TVCS solution provides the warfighter with secure communication capability in the air and on the ground.

- ✓ *Embedded in the fixed and mobile variants of the Battlespace Command and Control Center (BC3) – supporting air operations in AFCENT’s Area-of-Responsibility (AOR).*
- ✓ *Fielded in the 621st Air Control Squadron supporting USAF air operations in and around the Korean Peninsula.*
- ✓ *Soon-to-be fielded in the world-wide deployable USAF Command and Control (C2) System - the Control and Reporting Center (CRC), TRC 213/215*

Background

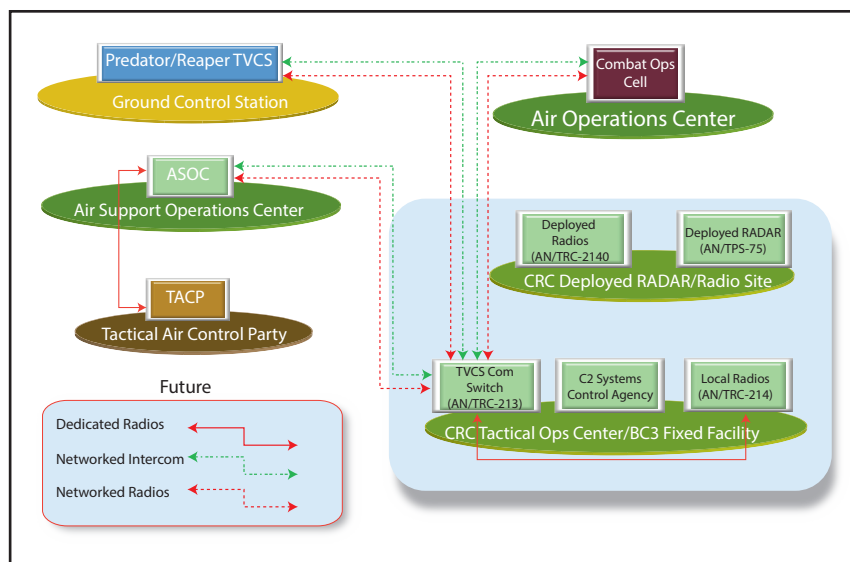
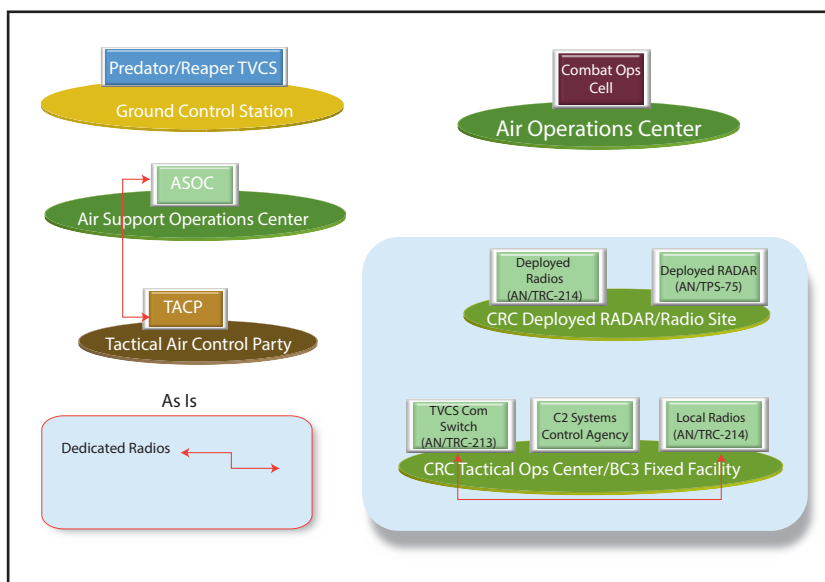
Working in tandem with a state-of-the-art C2 system, Air Battle Managers (ABM) view the battlespace and interact with U.S. and coalition aircraft via a C2 and communications interface. Mission crews provide assigned airspace surveillance, combat identification of air objects, and direct and coordinate combat air assets using CTI’s communications interface.

Since 2008, the CTI Tactical Voice Communications System (TVCS) has enabled combat mission crews to conduct air operations in support of Operation Enduring Freedom, Air Defense of the Arabian Gulf, and (previously) Operation Iraqi Freedom. First embedded in AFCENT’s BC3, the TVCS provides mission crews with the ability to communicate with each other (Intercom), with higher and lateral C2 agencies (Secure Telephone), and with tasked aircraft (Secure/Unsecure Radios).

Building on the ability to respond to AFCENT’s Urgent Operational Need (UON), the TVCS is now the tactical communications heartbeat of the Air Force’s ground-based C2 node – the CRC. Hosted in the CRC’s AN/TRC-215 Remote Radio Secure Voice System, CTI’s TVCS enables mission crew intercom, air-ground-air communications, and secure telephone connectivity – the TVCS is fully tested, IA compliant, and supports combat operations on a 24/7/365 basis.



The “As Is” – stove-piped communications systems within each C2ISR node inhibit direct communications between those warfighters tasked with planning operations (AOC), supporting US ground forces (ASOC/TACP), providing overhead surveillance and targeting (RPA), and executing Joint Forces Component Commander’s taskings (CRC). While each of these combat nodes has an embedded communication capability, the ability to directly effect internodal collaboration and asset sharing is left to an overwhelming and complex chat technology.



The “Future” – The CRC and the BC3 operate at the tactical level and populate the assigned AOR with organic tactical radios and telephones. These communications assets have the ability to be shared over a TVCS communications backbone providing wide-area intercom enabling real-time collaboration and the ability for the CRC to “share out” unused radio assets with all participating C2ISR platforms.

About Cornet Technology

Cornet Technology, Inc. has a long history of product innovation resulting in customer satisfaction and success. For over 25 years the company has worked closely with U.S. Defense agencies. This extensive experience has resulted in our communications subsystems being incorporated in over 120 U.S. Navy surface and submarine vessels, in ground-based Air Force mission control operations and air to ground communications, and in Navy and Army Tech Control facilities. Our products are COTs-based, have a proven long life cycle, and offer high reliability and availability.

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AN08271400.01