

## C2 ON-THE-MOVE NETWORK DIGITAL OVER-THE-HORIZON RELAY (CONDOR) CAPABILITY SET

Operation Iraqi Freedom highlighted the need for improved on-the-move and beyond-line-of-sight data capabilities for maneuver units. The C2 on-the-move Network Digital Over-the-Horizon Relay (CoNDOR) Capability Set provides these capabilities throughout the MAGTF. It enables the use of command-and-control applications and Blue Force tracking devices that feed into the Common Operational Picture (COP). Building the COP increases situational awareness of friendly units and disseminates intelligence products on enemy locations, significantly enhancing the information available for the leader's decision cycle.

The CoNDOR Capability Set bridges the gap between today's radio inventory and the future Transformational Communication Architecture (TCA). CoNDOR provides a Joint Tactical Radio System (JTRS)-like capability now, which enables our forces to learn how to operate in a JTRS environment. CoNDOR is an architectural approach, based on open standards, that provides SIPRNET connectivity to the forward edge of the battlefield and which will readily accept JTRS terminals when they are fielded.

The CoNDOR Capability Sets will consist of the following three variants: CoNDOR Gateway, CoNDOR Point-of-Presence Vehicle (POP-V), and CoNDOR Jump Command and Control (C2) Vehicle. The CoNDOR Gateway connects areas limited to line-of-sight communications using the Enhanced Position Location Radio System (EPLRS) and extends their coverage beyond the line of sight. The CoNDOR Point of Presence Vehicle (POP-V) provides units with legacy radios the ability connect to the tactical data network. The CoNDOR Jump Command and Control (C2) Vehicle provides a mobile command post capability with data communications during displacements. This Jump C2 variant provides on-the-move situational awareness by maintaining the network connectivity of C2 applications.

Since the CoNDOR Capability Set provides a tactical networking environment similar to the systems that will form the TCA, this effort begins the Marine Corps transition toward an IP-enabled, fully netted force. The relay has been developed and demonstrated using Office of Naval Research and USMC RDTE funds. It is expected to transition into a formal acquisition program during 2004.