MARINE CORPS
WARFIGHTING
LABORATORY

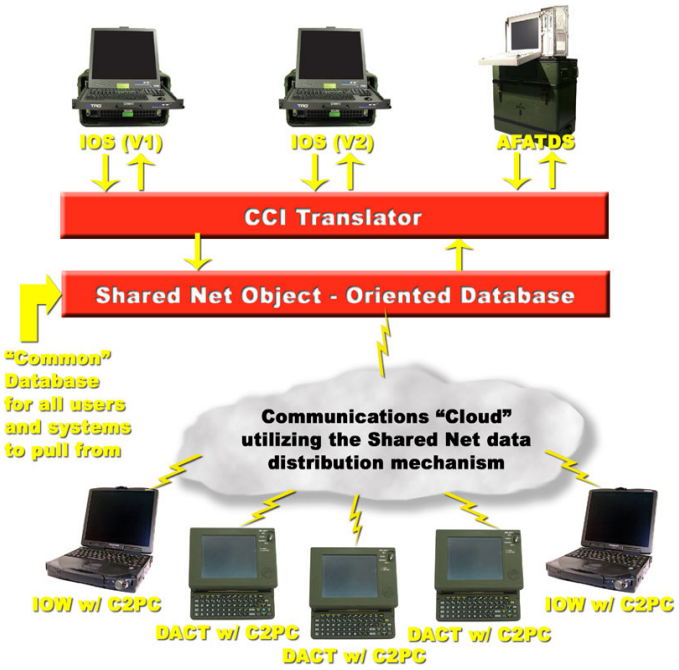
COMMAND AND CONTROL INTEGRATION
fact sheet

Command and Control Integration (CCI) software enables the synchronization of maneuver, intelligence and fire-support information. This capability provides the basis for a reliable common tactical picture for the regiment level and below across the existing and future communications architecture.

Background: Current Marine Corps command, control, communications, computers, intelligence, surveillance and reconnaissance architecture systems are not designed to present a consistent, common tactical picture. Maneuver, intelligence and fire support applications are not synchronized and there is no common source of trusted battlefield information. Information available in combat operations centers is often inconsistent, suffers from dissimilar timing delays and there is no uniform method to allocate network resources across applications. The lack of a reliable, common tactical picture that can be accessed by tactical units at the regiment level and below over existing communications paths is a significant shortcoming that CCI addresses.

Description: The Command and Control Integration is a software development project that capitalizes on the Lab's command and control experimentation with adaptive command and control technology. The principal components of CCI include: an internal object model of all battlefield entities such as friendly and enemy assets, overlays and operational events; a Shared Net Object Instance Store (SNOIS) and data distribution system that provides subscription-based, object-serving facilities; and the CCI Translator (CCIT) for selected command and control software applications.

During 2003, the Command and Control Personal Computer (C2PC), which is the user-interface application, was developed as a client to the SNOIS. The Lab conducted additional software development to interface CCI with the Advanced Field Artillery Tactical Data System (AFATDS) and Effects Management Tool (EMT) to demonstrate the concept via the integration of limited AFATDS and EMT functionality. This software will be adapted for the Expeditionary Tactical Communications System (ETCS) for experimentation during the Sea Viking 04 Advanced Warfighting Experiment.



Deliverable Product: The Lab is coordinating with Marine Corps Systems Command (MCSC) to transition selected CCI software segments to MCSC, complying with the Joint Technical Architecture and the Common Operating Environment Level Six specifications.

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