

MARINE CORPS WARFIGHTING LABORATORY

The **Tactical Medical Coordination System (TacMedCS)** provides rapid casualty identification, casualty visibility and status from Levels 1 to 3 in theater. TacMed CS also maintains a passive electronic (no power required) longitudinal evacuation record with the casualty, utilizes non-physical contact data transmission and storage media, and uplinks casualty information to a web based server.

Background: The Lab, in collaboration with Marine Corps Systems Command and the Navy Medical Department is developing a prototype system to enhance casualty evacuation. The system is intended to ease locating casualties for evacuation and to provide treatment record consistency. The operation requirement documents are the Theater Medical Information Program (TMIP) and the JV2010 En route Care Seminar.

Description: The Tactical Medical Coordination System will provide In Transit Visibility/ Total Asset Visibility (ITV/TAV) for casualties. This system exploits passive Radio Frequency Identification (RFID) technologies to automate some of the casualty evacuation process. TacMed CS differs from the Common Access Card (CAC) and other alternative approaches to digital medical information because it is a Radio Frequency based system, which doesn't require contact with the device to be able to read and write data. There is no need to remove clothing or protective gear. The tag has been tested through MOPP gear, Kevlar body armor, and various other forms of military clothing. It will only transmit approximately one foot away, and only when interrogated with a RFID scanner.

TACTICAL MEDICAL COORDINATION SYSTEM

fact sheet



The System includes four basic components: a tag, handheld RFID tag scanner, lap top computer system, and central data base server. Database information will be password protected and iridium satellite communications equipment used in this system will include standard commercial encryption approved for Department of Defense users.

Deliverable Product: Prototype hand-held concept demonstrator and assessment reports.

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