

MTS Movement Tracking System

System Description

MTS is the keystone to bringing logistics into the digitized battlefield of the 21st Century. This technology will provide the communications and tracking necessary for all tactical wheeled vehicles (TWV) and other select Combat Service Support (CSS) assets to complete their distribution missions on the digitized battlefield.

MTS provides the capability to identify position, track progress, and communicate with the operators of TWV. Through the use of positioning and commercial communication satellites, MTS provides the means for transportation movement control and Combat Support/Combat Service Support (CS/CSS) operations sections to exercise assured positive control of assets anywhere in the world.

MTS is being developed in phases. Based upon the TRADOC Operational Requirements Document (ORD), the MTS will follow a two-tiered evolutionary development strategy of incremental developments that will eventually meet all operational, environmental, and performance requirements as developed in functional and technical documents for the system. The two phases of the MTS development process are:

- a. Block I, Initial Operational Capability (IOC). This version provides the core capability of a worldwide MTS operational capability with a system design that is stable, highly modular, and easily upgradable, and an architecture that provides for system evolution. This initial capability will be the baseline for follow-on enhancements.
- b. Block II, Full Operational Capability (FOC). This version will deliver enhanced information flows and evolving capabilities, and add functionality and interfaces to complete the system. The FOC will be achieved through the use of Pre-Planned Product Improvements (P3I), technology insertions, and/or additions, and product substitutions.

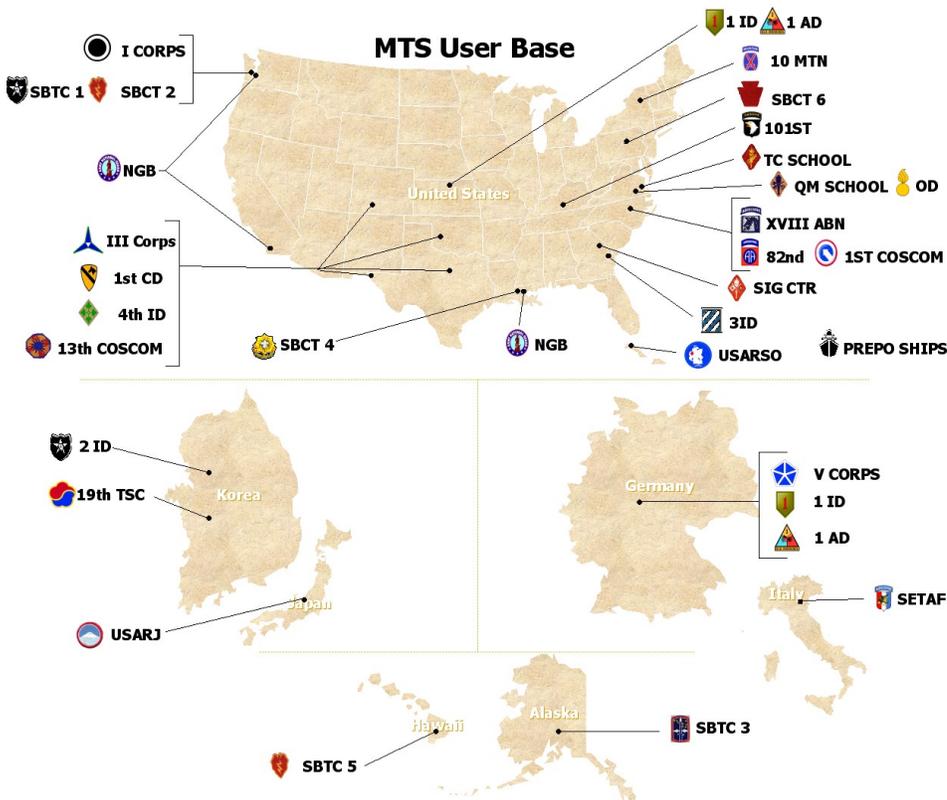
MTS has proven itself as a critical technology enabler with its success story during Operation Iraqi Freedom.

The major initial operational requirements for MTS are:

- Near-real time two way data exchange and messaging communications between any MTS equipped users worldwide
- Utilization of NIMA provided digital mapping data and map media
- Satellite based tracking
- JTA-A compliant
- Capability to use multiple satellites

The major future operational objectives for MTS are:

- Enhanced signal security
- Vehicle diagnostic and prognostics integration
- ABCS interfaces
- Embedded GPS
- Embedded RFID interrogator



Software/Hardware Platform

Software

MTS utilizes MTS Messenger Software and TracerLink Mapping Software simultaneously so that users can send messages and view their position (and the position of others in their group) at the same time. These software programs are viewed as pop-up windows through the use of the Windows NT operating system.

