

The NetCom™-V/TruLink® Modular Vehicle Management System offers true Internet Protocol (IP) base communication. The system provides traditional intercommunication capabilities while integrating advanced networking architecture. This enables it to serve as a gateway to battle command and digital voice communications networks.



The NetCom™-V/TruLink® system provides:

- Tethered (wired) or Un-tethered (wireless) Intercommunication
- Enhanced Situational Awareness
- Field Proven/Low Risk
- Low Total Cost of Ownership
- IP Based Communication Architecture
- Integrates with Any Radio

NetCom™-V/TruLink® capabilities include:

- Advanced digital communications system, offering extensive functionality, flexibility, and scalability for all types of armored vehicles
- Modular and scalable system to facilitate customization and adaptation to a wide range of vehicle platforms
- Fully programmable allowing integration into platform C4ISR systems, to specific CONOPS, and Mission requirements; incrementally augments the capabilities of ground vehicle C4ISR systems



- As a networked system NetCom™-V/TruLink® offers a consolidated and integrated capability for commander and dismounted crew. Communication is maintained among crew and higher-level command, as well as, access to long range radio assets and other electronic systems both in-vehicle and dismounted mode.
- The system offers the vehicle commander and crew the capability to be tethered to a NetCom™-V crew station while in the vehicle. For greater mobility within the vehicle, as well as when dismounted, the crew can connect their headset to a wireless TruLink Portable Transceiver (TPT) for un-tethered intercommunication.
- As a vehicle intercom, NetCom™-V/TruLink® provides users with secure digital communications with flexible encryption solutions for all internal and external communications; multiple software and hardware encryption options
- The simple modular configuration of NetCom™-V results in a common Line Replaceable Unit (LRU) implementation across all ground vehicles, and the ability to provide a complete system solution for different variants of vehicle with just a single crew station. Additional crew members can be added to the vehicle intercommunication system by simply providing them with TruLink Portable Transceivers.
- Interfaces directly with all IP devices, including a direct interface to the latest Ground Mobile Radios and the ability to remotely manage each transceiver
- Ruggedized for the ground-vehicle environment and been qualified to MIL-STD-810 and MIL-STD-461



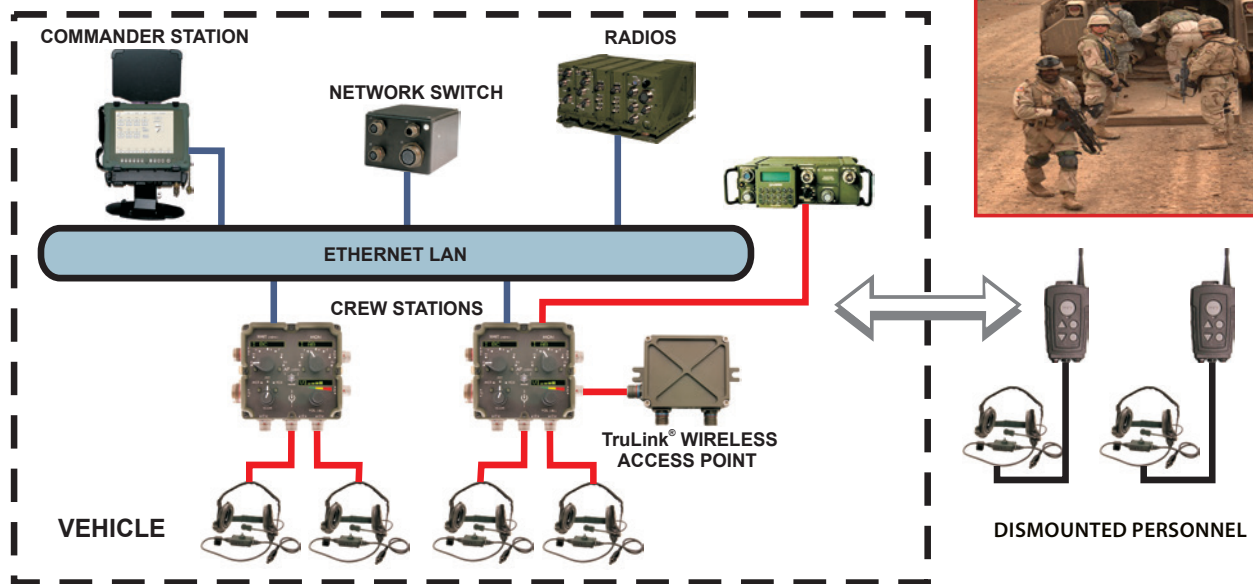
NetCom™-V™

- Interoperability via IP protocol suite
- Multiple user crew stations
- Adaptive noise cancellation eliminates noise at the audio input
- Optional system control via remote Windows-based Graphical User Interface
- Direct interface to all available military vehicle headsets
- DoD patented spatial audio increases intelligibility
- Manage secure communications
- Radio management and control
- Programmable voice and alarm generator
- Simultaneous voice, data, and location for dismounted crew and personnel
- Advanced text-to-speech capabilities for flash message traffic

TruLink®

- Up to 31 users on a channel
- Up to 50 channels
- Full-duplex intercommunication system
- Up to 6 simultaneous talkers communicate full duplex
- Robust communication link – Frequency-Hopping, Spread Spectrum with adaptive hop-set
- 2.4 GHz frequency – unlicensed frequency band
- 500 meter line-of-site operation
- Optional UHF version for 1,500 meter operation
- VOX activated for hands-free operation
- Adaptive VOX operation in dynamically changing high noise environments
- Multiple encryption options for military and government applications

System Block Diagram of NetCom™-V/TruLink®



The most basic system to support a four-man vehicle crew would consist of a single NetCom™-V crew station that provides vehicle intercom to two crew members. The NetCom™-V crew station is also connected to the vehicles long-range radios and a TruLink Wireless Access Point (WAP). The WAP provides a vehicle intercom

connection to two additional crew members using TruLink Portable Transceivers. The modular system can be expanded to include more vehicle crew by simply adding TruLink Portable Transceivers or NetCom™-V Stations.