



Case Study

CREATING FLEXIBLE UNIFIED VOICE MANAGEMENT SOLUTIONS FOR THE USSOCOM FAMILY OF VEHICLES

About TOCNET-G4

TOCNET-G4 is SCI's most advanced Unified Voice Management System (UVMS). To date, with advanced digital architecture and significant SWAP-C reductions. Battle-tested for almost 20 years, TOCNET-G4 is a mission-proven solution for military platforms of all types.

TOCNET-G4 leverages SCI's latest innovations to provide a powerful, dynamic system that is scalable, software-defined, and customizable for every mission's unique needs. TOCNET-G4's modularity allows the platform's voice communication architecture to be "future-proof". TOCNET-G4 features full integration for tactical vehicles, command posts (CPs), marine platforms, unmanned aerial systems (UAS), and dismounted troops.

Learn more about all of our products and services at www.SCI.com.

When USSOCOM sought to outfit the new GMV1.1 and combatant crafts with state-of-the-art tactical intercommunications capabilities, three critical problems were identified. SCI solved all three with the advanced TOCNET®-G4 Unified Voice Management System, responsively addressing USSOCOM's needs while also maintaining key legacy features.

In its search for a tactical intercommunications solution for its Family of Special Operations Vehicles (FOSOV), USSOCOM identified the following issues as priorities:

- Minimizing the impact of adopting a new intercommunications system;
- Providing remote radio control to include a waveform utilized specifically by USSOCOM;
- Developing interfaces for the next generation of dual-channel man-pack and handheld radios

In addition to SCI's responsiveness, USSOCOM selected TOCNET-G4 because it represented the most valuable combination of low SWAP-C and high capabilities in a user-friendly system. Because of this, USSOCOM is also moving towards outfitting its fleet of other combat vehicles including the JLTV and M-ATV.

Minimized Impact

To minimize the negative impacts of adopting a new system, SCI maintained the user-friendly blind-touch interfaces of many legacy systems. This ensures a clear line of continuity between legacy systems and TOCNET-G4, reducing the learning curve for most service members.

ASCM Implementation

In addition to minimized impact, SOCOM noted a preference for remote radio control, including support for the Advanced Special Communications Mode (ASCM) waveform. SCI was the only supplier with implementation for this SOCOM-specific waveform across all radio types.

Next-Gen Development

Finally, SCI worked closely with SOCOM to develop interfaces for the next generation of dual-channel man-pack and handheld radios. This ensured TOCNET's continued role as a key contributor to SOCOM's success in land-, air-, and sea-based missions around the globe.



TOCNET-G4 ConOps

Combat Vehicles
Combatant Crafts

Tactical Operations Centers (TOCs)
Command Posts

Unmanned Aerial Systems (UAS)
Fixed-Wing Aircraft

Rotary-Wing Aircraft
Dismounted Special Operations