



### 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](http://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