



Secure Mobile IP Solutions are Ready to Roll

In hostile military environments, or during an emergency or other crisis, extremely reliable, mobile, communications connectivity is essential.

Commanders on the battlefield, first responders en route to a disaster, even executives whose business requires travel to dangerous or unpredictable regions—all understand the fundamental importance of reliable connectivity for their voice, video and data communications. Without it, their ability to lead may be compromised, resources could be in jeopardy, and lives may be at risk.

Cisco Systems® is meeting the need for a high-performance, mobile IP-enabled vehicle that also helps ensure user safety and security. Cisco® has outfitted a fully armored, all-wheel-drive Mercedes-Benz® G-Wagen with the most advanced mobile IP solutions available. Working with Stewart & Stevenson, the exclusive representative for tactical G-Wagens in the United States, the result is a mobile command-and-control center that provides unprecedented mobile connectivity and safety.

Cisco has positioned this communications-enhanced G-Wagen to meet pressing needs in the realms of public safety, first response, homeland security, and battlefield deployment. It provides exceptional mobile IP power in a bullet- and bomb-resistant vehicle that can be deployed almost anywhere.

An Ideal Combination of IP Performance and Personnel Protection

The Mercedes-Benz® G-Wagen features a 156-horsepower turbocharged diesel engine that delivers both the speed and power necessary to tackle the most challenging terrain. And while powerful, the engine has a fuel efficiency that gives the G-Wagen more than two-and-a-half times the range of comparable vehicles.

Its compact footprint also makes it remarkably nimble, allowing it to navigate where larger, more cumbersome vehicles get left behind. As an added measure of reassurance, it is equipped with three batteries—two to accommodate the vehicle's ignition and ongoing electrical power requirements, and a third at the ready, to provide emergency jump-start power as needed.

Offering a battle-worthy configuration, the G-Wagen features a specially reinforced chassis, and is completely enveloped in armor—including transparent armor on all glass surfaces. It provides ballistic protection up to B7, and can withstand even grenade attacks and landmine blasts. Overall, it presents a remarkable mix of agility, power, and protection, and is an ideal means of transportation for mobile IP applications that need to excel in the midst of challenging circumstances.

Outfitted With the Most Advanced Mobile IP Solutions

This specially outfitted G-Wagen also carries innovative technology reinforced and “ruggedized” to consistently endure and perform. To provide mobile IP ability, the G-Wagen comes equipped with a Cisco Mobile Access Router, as well as a Cisco Land Mobile Radio (LMR). Together, these technologies constitute a platform of reliable mobile voice, data and video capability. Users on the move can wirelessly access the Internet via wireless-enabled laptop computers from the rear seat of the vehicle, and can also remain in voice contact—two capabilities essential to optimizing mission or operation fulfillment, and personal safety.

Remarkable Interoperability

At the heart of the connectivity contained within the Mercedes-Benz® G-Wagen is an architecture powered by Cisco that delivers mission-critical communications capable of reaching essentially any device, at any time, and from any location. Both new and existing equipment can function across a common platform; as the configuration takes advantage of open standards and off-the-shelf products to accommodate fixed, mobile, and field communications demands.

Using an LMR gateway, the systems on board the G-Wagen can connect multifrequency LMR with an IP or voice-over-IP (VoIP) network. This digital connection eliminates the frequency limitations that often plague analog voice and data communication.

The versatile, infrastructure can also utilize either public or private pathways, and can integrate private branch exchange (PBX), analog, cellular, integrated digital enhanced network (IDen), satellite, WiFi, softphones, and other technologies. The result is real-time interoperability in a stable environment regardless of medium, frequency, protocol, or transport. To provide essential security, each communications channel can be encrypted through the IP channel backbone, helping to ensure robust security at the IP channel endpoints. This reassurance and remarkable adaptability combine to create near ubiquitous, secure communications coverage.

The communications architecture founded on innovations from Cisco and showcased on the G-Wagen demonstrates the unification of voice, video and data over an IP network. It creates a mobile platform that is scalable, secure and resilient.

Fully Protected, Completely Connected

Having vital mobile voice and data capability is only the beginning. Those charged with response command and situation control need to know that their safety and security have been optimized, so they can coordinate the strategies that will protect the property and people that are their responsibility.

The fully armored protection provided by the Mercedes-Benz® G-Wagen allows passengers to devote total attention to critical situations at hand and take complete advantage of the vehicle's mobile IP communications capability. With secure, reliable communication, all involved parties can stay informed and interconnected, and mission objectives can be achieved—thanks to the improved response and reinforced security now available through the G-Wagen.



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