

ALWAYS-ON VOICE, DATA AND
APPS HELPING SAVE LIVES

ALWAYS CONNECTED, EVERYWHERE.

THE CHALLENGE: CONNECTIVITY YOU CAN'T AFFORD TO LOSE

In policing, every second and every connection counts. When officers respond to emergencies, coordinate across agencies, or transmit live intelligence from the field, communication reliability can mean the difference between success and failure — even between life and death.

In today's environment, where fleets operate across vast regions and compliance with strict data protection regulations such as the EU's GDPR continues to tighten, communication resilience has become a cornerstone of public safety. A study by the European Union Agency for Cybersecurity (ENISA) found that connectivity failures during emergencies can delay response times by up to 30%, while data breaches involving mobile assets rank among the top five security risks facing first responder agencies.

These challenges are not confined to Europe. In Australia, a major mobile network outage in 2025 disrupted more than 600 emergency "000" calls, with reports of delayed responses and loss of life. Such incidents highlight the critical need for dependable, always-on connectivity that public safety teams can trust.

The Simoco VX4700 Vehicle Communications Platform ensures that voice, data, and applications remain always on, secure, and interoperable across any network. It transforms every police vehicle into an intelligent connected node, empowering officers to operate safely, efficiently, and effectively — anywhere their duty takes them.

KEY CHALLENGES FOR POLICE COMMUNICATIONS

FRAGMENTED VEHICLE COMMUNICATION ECOSYSTEMS



CHALLENGE

Emergency fleets often operate separate systems for radio, broadband data, telematics, and diagnostics.

IMPACT

Complex installations, high maintenance, and poor integration between systems.

SIMOCO RESPONSE

Fully modular Linux-based platform integrating LTE/5G, DMR, TETRA, P25, CANbus, GNSS, and Ethernet — all in a single chassis.

OPERATIONAL DOWNTIME DURING UPGRADES



CHALLENGE

Rolling out new equipment across large fleets is disruptive and costly.

IMPACT

Delayed deployments and higher service interruptions.

SIMOCO RESPONSE

Centralised firmware management, field-replaceable 5G modules, and integrated UPS for uninterrupted power.

COMPLIANCE WITH VEHICLE DASHBOARD LEGISLATION



CHALLENGE

New safety regulations prohibit dash-mounted devices that obstruct airbags or distract drivers.

IMPACT

Safety and compliance risks for officers during high-speed operations.

SIMOCO
RESPONSE

Our technology natively integrates into the vehicle's OEM touchscreen, removing the need for extra hardware. Provides in-vehicle apps for lights, sirens, and navigation, compliant with regulation 109/110 driver standards.

COMPLIANCE AND STANDARDISATION PRESSURE



CHALLENGE

UK and EMEA agencies must meet strict interoperability and compliance standards.

IMPACT

Legacy systems risk obsolescence, creating procurement challenges.

SIMOCO
RESPONSE

MCx-ready by design, supporting multiple bearer standards and APIs for dispatch, AVL, and telematics integration. Built for ETSI and 3GPP compliance to ensure long-term operational assurance.

COVERAGE AND RELIABILITY DURING CRISES



CHALLENGE

Coverage gaps across wide geographies leave officers disconnected in critical moments.

IMPACT

Data loss, failed communication links, and delayed response times.

SIMOCO
RESPONSE

With Simoco's multiple bearer approach (LMR, LTE, Satellite, Enterprise Wi-Fi), we make sure your connectivity never drops, even in motion.

CYBERSECURITY AND DATA SOVEREIGNTY



CHALLENGE

Agencies face increasing pressure to meet cybersecurity and GDPR data standards.

IMPACT

Data breaches or downtime undermine trust and mission effectiveness.

SIMOCO
RESPONSE

Built-in AES 256-GCM encryption, secure boot, and continuous firmware integrity checks. Centralised management ensures compliance, patching, and proactive security monitoring across the fleet.

SECURE TRANSITION FROM LEGACY RADIO TO INTEGRATED BROADBAND SERVICES



CHALLENGE

Police agencies rely on trusted LMR/TETRA systems with decades of proven reliability, but these legacy platforms don't integrate easily with LTE or Wi-Fi, making new digital technologies seem risky.

IMPACT

This limits adoption of advanced capabilities and access to real-time data, situational awareness, and coordinated operations.

SIMOCO RESPONSE

Leveraging decades of mission-critical experience, Simoco protects existing radio investments while enabling seamless broadband integration. Our solutions bridge LMR, LTE, and 5G, offering a low-risk path to MCx or ESN-equivalent services and unlocking modern, data-rich policing capabilities without compromising operational continuity.

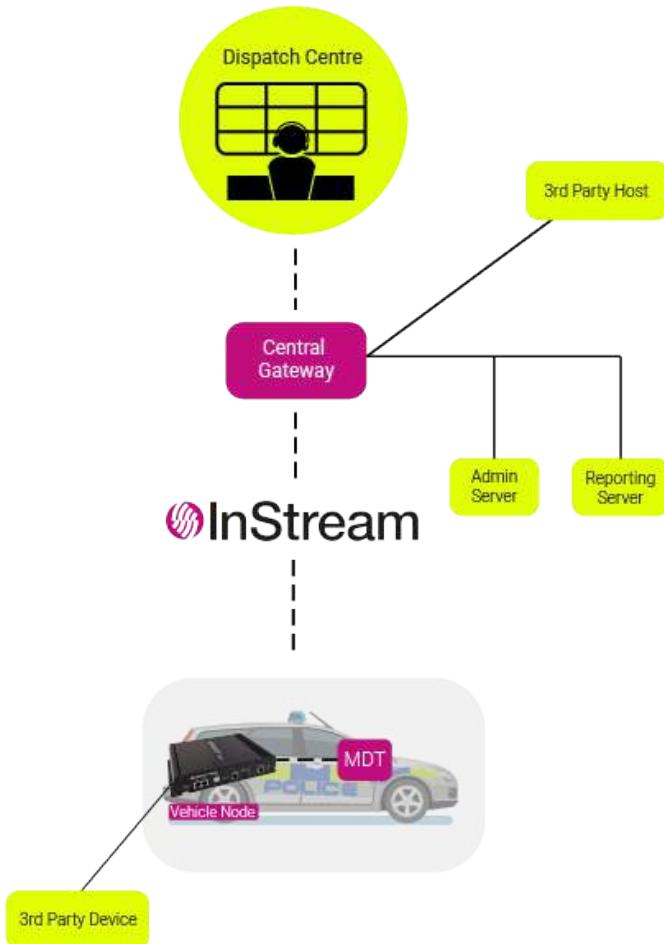
PROTECT YOUR TEAMS WITH SEAMLESS CONNECTIVITY

The Simoco VX4700 is more than a router, it's a purpose-built, all-in-one vehicle communications platform engineered for the demands of modern policing. Designed to protect your teams with seamless connectivity, it consolidates voice, data, telematics, and control functions into one modular system that works across any network – from TETRA and P25 to LTE, 5G, and satellite.

By turning each vehicle into a connected command node, the VX4700 ensures constant access to mission-critical applications, situational awareness, and secure data sharing – even in the most remote or congested environments. This unified approach declutters the dashboard, reduces hardware costs, strengthens cybersecurity, and simplifies fleet management – enabling officers to focus on what truly matters: protecting the public and saving lives.

INTELLIGENT VEHICLE AS A NODE (IVAAN)

In today's interconnected world, a vehicle has evolved beyond a mere mode of transportation; it has become a node of multifaceted connectivity and information exchange. Simoco, at the forefront of technological innovation, seamlessly bridges the realms of cellular, Wi-Fi, satellite, mobile data terminals, vehicle power management, and telematics to create a holistic ecosystem that enhances vehicle functionality and performance. Through Simoco's integrated solutions, police vehicles can tap into the power of cellular networks for real-time communication, leverage Wi-Fi for high-speed data transfer, harness satellite technology for global coverage, utilise mobile data terminals for on-the-go connectivity, optimise power management to extend operational efficiency, and employ telematics for comprehensive data analysis. This convergence not only transforms police vehicles into intelligent entities but also empowers police forces and individuals with unparalleled control and insight into their mobile assets, making the road ahead safer, more efficient, and smarter.



KEY FEATURES & BENEFITS



CAMERA CONTROL AND ANPR

Integrated digital video and ANPR applications stream incidents directly – no extra hardware required.



OEM TOUCHSCREEN INTEGRATION

Meets vehicle safety legislation by using built-in displays for apps and controls.



COMPLIANT AND SAFE

Meets regulation 109/110 for driver and vehicle safety.



MODULAR FRAMEWORK

Flexible configuration for multiple networks and applications.



LONG-TERM SUPPORT

7–10 years of hardware and software assurance.



SUPPORT FOR MDT AND THIRD-PARTY APPS

Open gateway APIs enable integration and innovation.



VEHICLE AS A NODE

Transforming the fleet into intelligent networked assets.



ADVANCED POWER MANAGEMENT

Dual supply, efficient PSU, and UPS for brownout protection.



BESPOKE CUSTOMISATION

Delivered through Simoco's in-house R&D and engineering.



LMR INTEGRATION

Supports P25, TETRA, and DMR terminals.

EXPERIENCE THE FUTURE OF CONNECTED POLICING

The Simoco VX4700 Vehicle Communications Platform delivers the next generation of always-on voice, data, and application connectivity – keeping officers connected and mission-ready wherever they go.

WHY SIMOCO

- Proven global expertise in mission-critical communications for public safety.
- Seamless integration of legacy radio and next-generation broadband systems.
- Built with security, reliability, and flexibility at its core.
- Trusted by agencies where connectivity saves lives.

BOOK A VEHICLE DEMONSTRATION

See the VX4700 in action and discover how Simoco can help your police fleet stay connected – always and everywhere.

