



# **SIMOCO CONNECTED**

## **POLICE**

**EMPOWERING POLICE  
AGENCIES WITH SMART  
TECHNOLOGY IN ORDER  
TO PROTECT AND SERVE  
COMMUNITIES**

**simoco**  
wireless solutions





## The Connected Police

# Introduction

Police forces across the globe face extraordinary challenges in today's world, from riot prevention to acts of terrorism. In times of extreme threats and catastrophes, the demand for intelligent and reliable public-safety solutions is stronger than ever before. In the face of increasing levels of complexity in crime, terrorism and public safety, how are emergency services using technology themselves in response? How is it affecting their ability to advance protection, safety and service on the ground and with what success?

Whether this delay has been down to institutionalised conservatism, cultural resistance to change, or the economic challenge of doing more with less, one thing is now certain: a transformation is taking place in empowering police forces with the right communication tools. Simoco Wireless Solutions is leading the way in the modernisation of emergency responders around the world.

The rise of Internet of things (IoT) devices is providing a new wave of opportunity for police officers to better connect to, and share with each other. These opportunities are enabled by the development of a wide range of tools and devices fed by sensor and data streams, and increase further when investing in the necessary infrastructure to enable this connectivity. The connected officer of the future is fast becoming a reality, as these new technologies become mainstream and police agencies develop greater confidence in implementing them.

# Empowering the Connected Police Officer

Two of the most important tools in public safety operations are reliable communications and relevant information. The ability to provide up-to-date information to the right resources at the right time over a secure network is critical in keeping emergency services and the general public safe. Police agencies require efficiency but also innovation in safety which removes the risk that police officers encounter in dangerous situations. Increasingly mobile broadband connectivity such as 4G/5G is being adopted by police agencies in order to bring video into the control room.

Typically control rooms rely on voice alone for intelligence on the ground and rarely do they have access to video in real time. Mobile broadband networks provide the ability to stream video directly from a police officer's body worn camera directly into the control room.

A number of technologies are being developed around contextual awareness.

**Body worn cameras** - provide vital information in real time as a situation unfolds. Film footage from crime scenes has evidential value and can also help de-scale incidents. Body worn cameras can be connected directly to a Velocity unit providing real time footage to control room staff.

**Biometric sensors / wearables** – traditionally most police officers have an emergency red button on their portable radio which when pressed sets an emergency call to a control room as well to colleagues. Although the audio and location is relayed to the control room, in extreme situations officers may not be able to press that button. A biometric sensor picks up the officer's heart rate and provides significant indication. This contextual information can provide what actions need to be taken within seconds rather than minutes which it would typically take over radio.

**Drones** – provide a platform for a range of devices such as sensors and cameras, heat imaging and video analytics. Drones can wirelessly be interlinked with a Velocity unit providing officers the intelligence that would typically only be available to the naked eye. Drones can be deployed at distance in or outside vehicles or to monitor hostile situations.

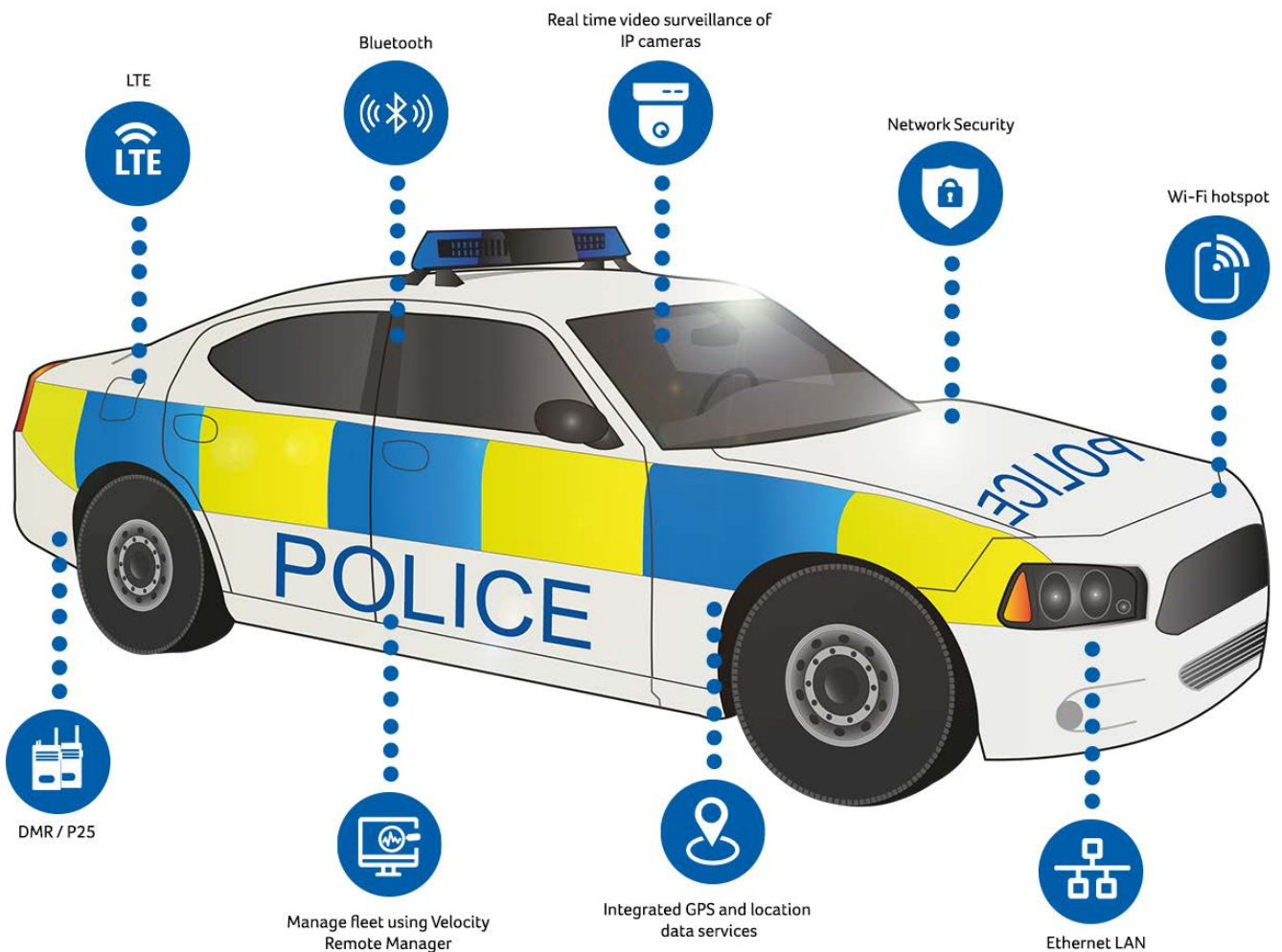


# Velocity a unique solution for the police industry

For police officers on the frontlines, wireless connectivity is a life-line. They rely on fast and always-on access to critical applications and data to perform their mission, whether in a vehicle, station or in the field. Whether it is high-priority broadband data or streaming real-time video, an urgent dispatch update or interoperable push-to-talk, Velocity allows you to make use of this advanced mobile broadband technology today.

Ensure that your officers get the right information delivered to them at the right time, in a way that they can view it quickly and easily, without distracting them from the tasks at hand. Make information sharing seamless and effective so that you can turn data into intelligence.

Simoco's unique intelligent communication solution, Velocity will transform communications for police agencies. Velocity provides a converged communication network of multiple bearers such as Digital Mobile Radio (DMR), Long Term Evolution (LTE) and provides a host of connectivity options such as Wi-Fi, Bluetooth, Ethernet LAN ensuring voice and data will always get through.

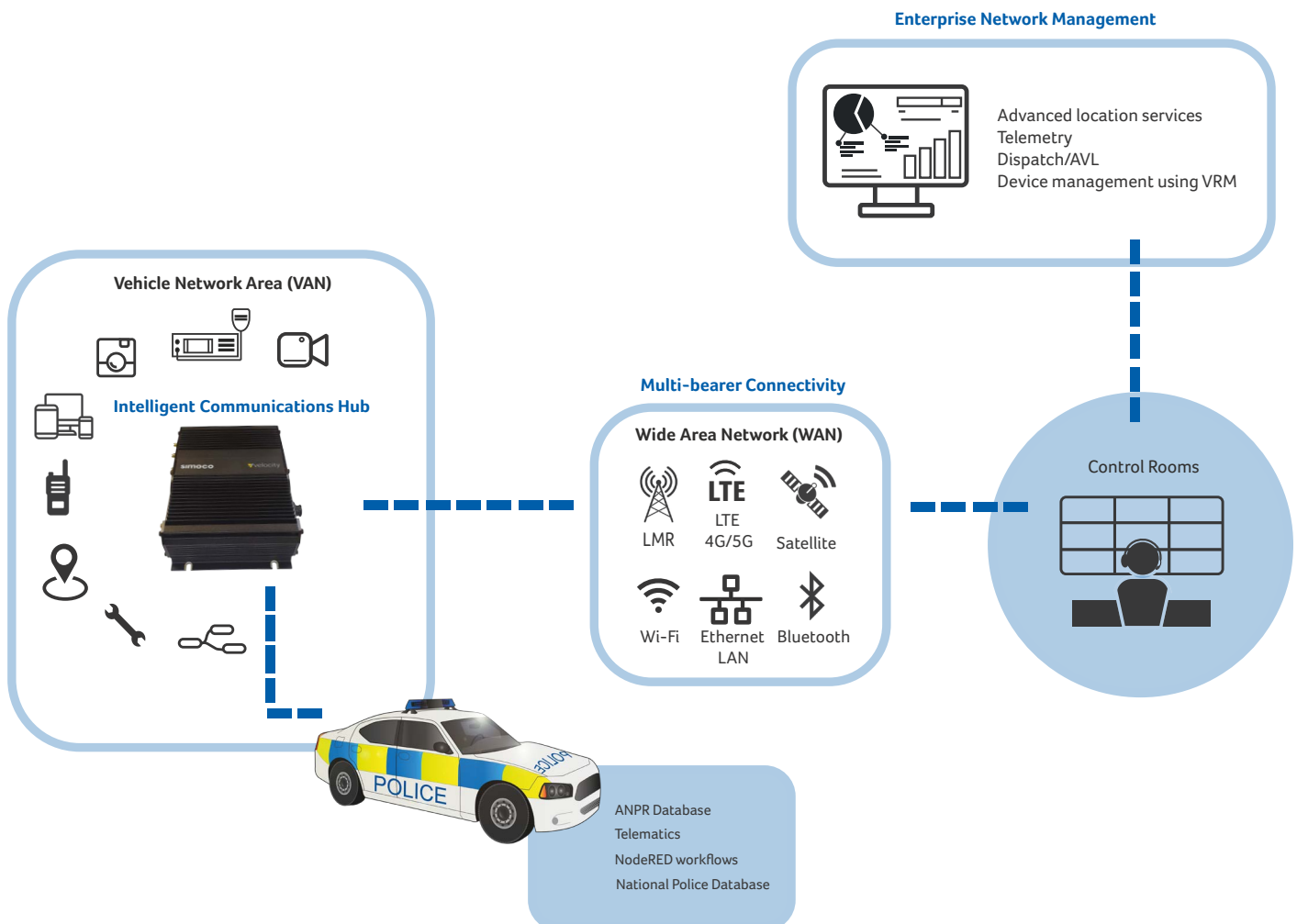


# Creating a vehicle area network with **Velocity**

Police agencies need to ensure their teams have access to the same real-time data and applications on the move, as they do back at base. Accessing this information in vehicles is especially important as it allows first responders to remain connected and productive throughout a shift, while providing full visibility of assets so they can effectively coordinate operations.

Velocity has been designed to keep first responders connected in vehicles so they can access real-time intelligence on the road. It provides a connectivity layer around the vehicle that allows a variety of equipment from tablets to laptops to body-worn cameras to access the Internet. This creates a vehicle area network (VAN) and the connectivity between the VAN and the enterprise network is what makes the crucial flow of information between the field and base possible.

For public safety, this information flow can be a lifeline. Mobile connectivity allows frontline teams to transmit and receive data securely in real time for example video feeds, maps and criminal record databases. When needed they can also coordinate their response with other emergency services. Command can monitor the location and status of assets, access telemetry and see fleet information such as data on driver behaviour. This two-way flow of information helps keep responders safe and effective. Connected technology gives officers the tools they need to make smarter, safer, more productive decisions. It frees them to do an important, necessary, and difficult job.





# Wireless solutions built to drive efficiency



## Complete fleet management for control room operations

Police officers can use our software with integrated geofencing to track vehicle routes and driver behaviour on the road. The intelligence in our devices allows control room managers to monitor route efficiency, look for redundancies or wasted time, and reconfigure routes for maximum effectiveness ensuring police officers can respond to crime and emergencies as quickly as possible.

## Advanced location data services

Accurate location data is essential as lives often depend on it. Our solutions are fully equipped with integrated GPS providing location-based data for computer-aided dispatch and fleet management applications which help locate police officers in need.

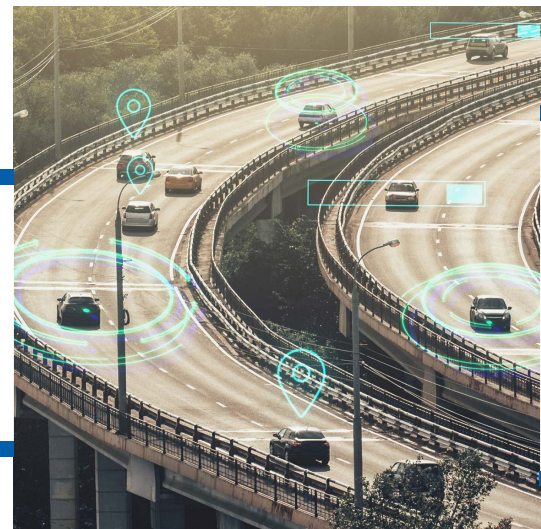


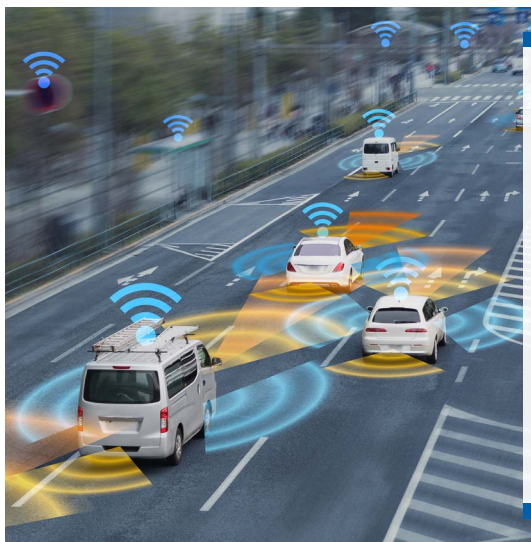
## All in one intelligent communication solution

Our solutions provide an affordable and best in class intelligent communications which consolidate all your devices and peripherals providing police officers the reliability and resilience it needs from a mission critical communication network.

## Centrally manage your fleet of police vehicles

Minimise one-off vehicle troubleshooting by monitoring, managing, and analysing connectivity and security issues from anywhere.



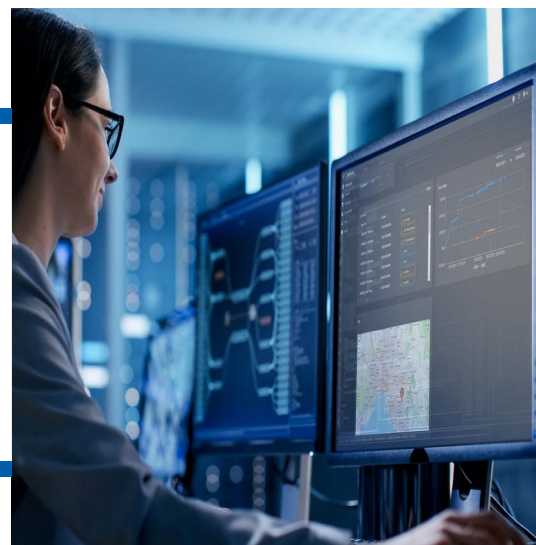


### Mobile Wi-Fi hotspots

Police vehicles enabled with mobile Wi-Fi hotspots can provide communications to all your handheld devices such as smartphones, tablets and laptops. Enable your police officers with always on connectivity on the go, so they can securely access and update central databases with reports, evidence collection, and so forth allowing them to spend more time on the road and less at the station, while still completing the necessary paperwork. Access to historical reports and information also provides the intelligence your police officers need to make faster decisions on the go.

### Real time monitoring, maintenance and updates

Simoco's end to end network management tool, Velocity Remote Manager enables simplified, remote and simultaneous real-time configuration, control and troubleshooting of Velocity units, configurations and maintenance to your wireless on board device from a remote location while ensuring that sensitive data stays safe.



### Real time video surveillance streaming

In recent years, the use of body-worn video has grown substantially. These have proved beneficial in two important areas: they allow the officer to record exactly what happened in any incident to help with future actions, and they help build public confidence as they've been shown to improve officer behaviour. Our solutions rely on constant mobile connectivity which makes possible to stream real time video keeping control room staff up to date with on the ground intelligence.

### Network Security

Police agencies are responsible for collecting large volumes of data at crime scenes and sending this back to headquarters. Agencies must follow proper cyber security governance policies and mitigate networking risks to protect sensitive information. Velocity is designed with security in mind and includes the use of advanced security protocols such as virtual private networks (VPN). Other security features include setting up Demilitarized Zones (DMZ), MAC filtering, IP filtering, port filtering and port forwarding provide a standards-based security solution for connecting and managing remote assets, enabling customers to guard against malicious access to sensitive data.





# simoco

wireless solutions

## Contact Us

**UK HQ**  
Field House  
Uttoxeter Old Road  
Derby  
DE1 1NH  
Tel UK: 08717 411 050  
Tel International: +44 (0) 1332 375 500  
info@simocowireless.com

**AUS HQ**  
1270 Ferntree Gully Rd  
Scoresby, VIC 3179  
Tel: +61 (0) 3 9730 3999  
Fax: +61 (0) 3 9730 3964  
inquiry.aus@simocowireless.com

[www.simocowirelessolutions.com](http://www.simocowirelessolutions.com)

This brochure is subject to frequent changes and updates without prior notice. For the most up to date version, please check our website or contact Simoco directly. Any included specifications based on standard operating conditions. Simoco Wireless Solutions does not accept liability for any error or omission in this document.

© Simoco Wireless Solutions, Connected Police v.1.2