

Visual Use Case | Law Enforcement Vehicles



Meet Marta

Marta is the Chief Technology Officer for a large metropolitan area police department. Her primary focus is leveraging technology to ensure officer and citizen safety, while increasing department efficiency, information transparency, and security. With 5G networks coming online across the city, she wants a solution that provides fast and reliable access to data from officers deployed in the field with the lowest latency possible.

The Challenge | Secure and Reliable Police Vehicle Communications

Marta needs to ensure that all law enforcement vehicles have reliable communications across the entire city. Vehicles need to support real-time video streaming from officer body-cams and dash-cams, and real-time voice and data exchanges supporting officer radios (LMR), laptops, cell phones, and vehicle data including navigation and driver behavior. The mobile routers and antennas she needs for her fleet need to be 5G ready, extremely rugged, and as compact as possible. Additionally, their communications must be FIPS 140-2 compliant for added security with remote updating capabilities to easily load the latest security patches.

The Solution | AirLink XR80 Routers and Mobile Mark MXG945 Antennas

The AirLink XR80 delivers exceptional uplink and downlink capabilities, crucial for continuous video and data transmission. Featuring advanced AirLink Cognitive Wireless technology, the XR80 automatically switched between optimal networks, ensuring sustained connectivity and coverage. To safeguard data exchanges between vehicles and command centers, the system integrates mobile-optimized VPN services via the AirLink® Connection Manager (ACM).

For fleet management, her department utilizes the AirLink Mobility Manager (AMM) service to monitor the location, health, and security status of each XR80 router installed in their vehicles, ensuring they are always operational and secure. The Advanced Mobility Reporting (AMR) aids the department in enhancing vehicle routing and accurately documenting vehicle positions, improving operational efficiency.



The XR80's rugged design is specifically built to withstand extreme conditions within vehicle environments, ensuring reliable performance. It pairs seamlessly with the new Mobile Mark MXG945 antenna, a robust ultra-wide band solution designed to fit between the ribs of Ford Interceptor and Explorer models — frequently used by law enforcement. This antenna boosts signal strength and enhances Wi-Fi 6 coverage in and around each vehicle with integrated GPS, ensuring continuous connectivity. Officers benefit from improved communication capabilities through LMR-LTE interoperability and can efficiently manage wireless video offloads at depots, thanks to the comprehensive connectivity solution provided by the XR80 and MXG945.

The Team | Device Provisioning, Activation and Installation Services

For over 30 years our cellular networking solutions team has expertly provided IoT connectivity solutions for law enforcement agencies nationwide. Our team provides top-tier support for every aspect of your mission-critical fixed and mobile communications projects. The solutions engineers we employ configure, provision, kit, and ship your communications devices hot and ready for immediate use. And if you utilize our installation services, our skilled technicians ensure your devices are functioning securely, reliably, and at peak performance.

