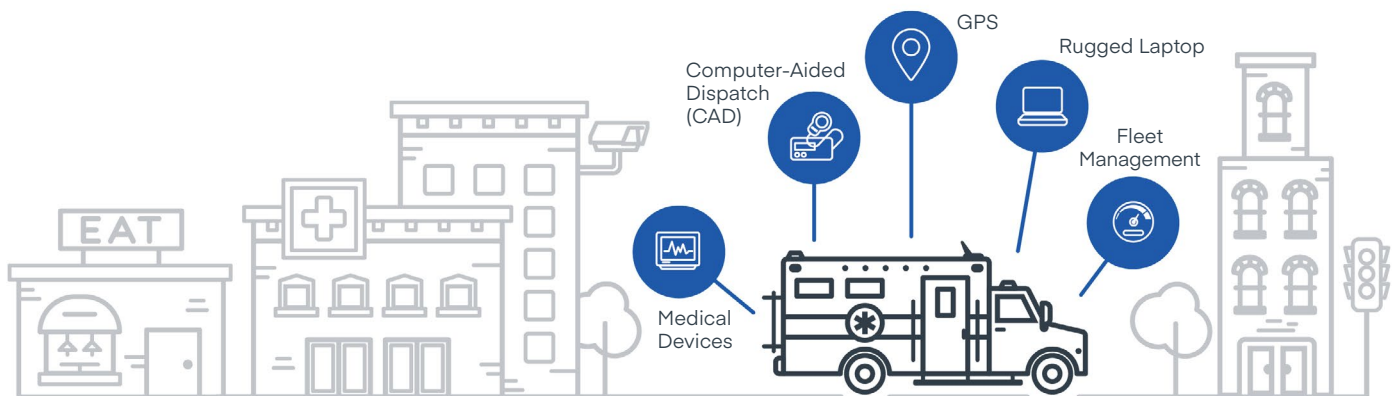


In-Vehicle Networks Enable Life-Saving Technologies for Emergency Medical Services

LTE Solutions for Highly Reliable, Secure & Centrally Managed Connectivity

A growing number of devices and applications used by Emergency Medical Services (EMS) are now capable of connecting to a wireless network. When supported through in-vehicle wireless routers with built-in LTE, these connections facilitate real-time communication between technicians, onboard medical devices, and physicians waiting in the ER. Whether using mobile data terminals (MDTs), automated external defibrillators (AEDs), live video, or a host of other devices, first responders depend on highly reliable mobile connectivity.



Networking Challenges for Emergency Services

Inconsistent Connectivity

Frequent connection drop-offs make real-time data sharing impossible, which can be disastrous for many applications. These include the transmission of digital sensor feeds with remote ER staff, GPS data for auto vehicle location (AVL) systems, and traffic signal priority (TSP) systems. Dual-modem LTE solutions enable active connections to multiple cellular carriers and/or public safety networks, greatly improving reliability.

Centralized Management

With many vehicles spread across an entire city or county, IT and fleet management teams often don't have time for one-off troubleshooting or on-person management of configuration changes, security updates, and other adjustments. They need centralized, cloud-based access to online dashboards and the ability to make network adjustments from anywhere.

Extreme Conditions

Equipment used by first responders needs to be durable and ruggedly functional, as does their on-board network connections. Emergency medical personnel depend on flexible mobile solutions that just work, irrespective of high and low temperatures, varying moisture levels, and physical shock. The demands for high availability in these applications are not only mission-critical but can also be life-saving.

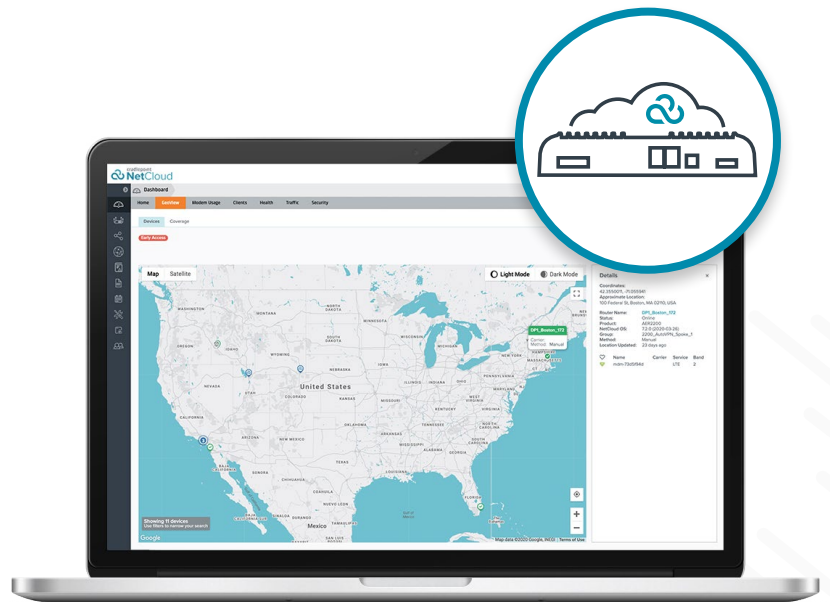
Wireless Networking Solution Checklist for Public Safety Vehicles

Cloud Management Services for Centralized Control of All Routers	
Set policies for entire group (security, data usage, captive portal)	●
Dashboards for security, health, mapping, and application visibility	●
Full security including IPS/IDS and application-aware, zone-based firewall	●
Location tracking and cellular health mapping	●
Ruggedized Routers	
Gigabit-Class LTE modem with support for public safety networks	●
5G Ready for future modems and adapters	●
Supports dual modems and multiple carriers per modem	●
Active GPS and simple integration with AVL / telematics software	●
Dual-band, dual-concurrent Wi-Fi 5 (2.4 / 5.0 GHz)	●
Supports up to 100 Wi-Fi clients	●
WiFi-as-WAN for video offload	●

Cradlepoint's NetCloud Service for Mobile & LTE Routers

Cradlepoint NetCloud Service for Mobile provides the enterprise capabilities that public safety agencies need for their wide-ranging on-board connected technologies. Delivered through purpose-built ruggedized routers, NetCloud provides connection reliability, manageability, and security at scale.

[Learn more at cradlepoint.com/mobile](https://www.cradlepoint.com/mobile)



Call **NEWCOM** for more information on in-vehicle connectivity.



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