Cradlepoint Network Solutions for EMS

Challenge: Rugged, Flexible Mobility in Challenging Life-Dependent Environments

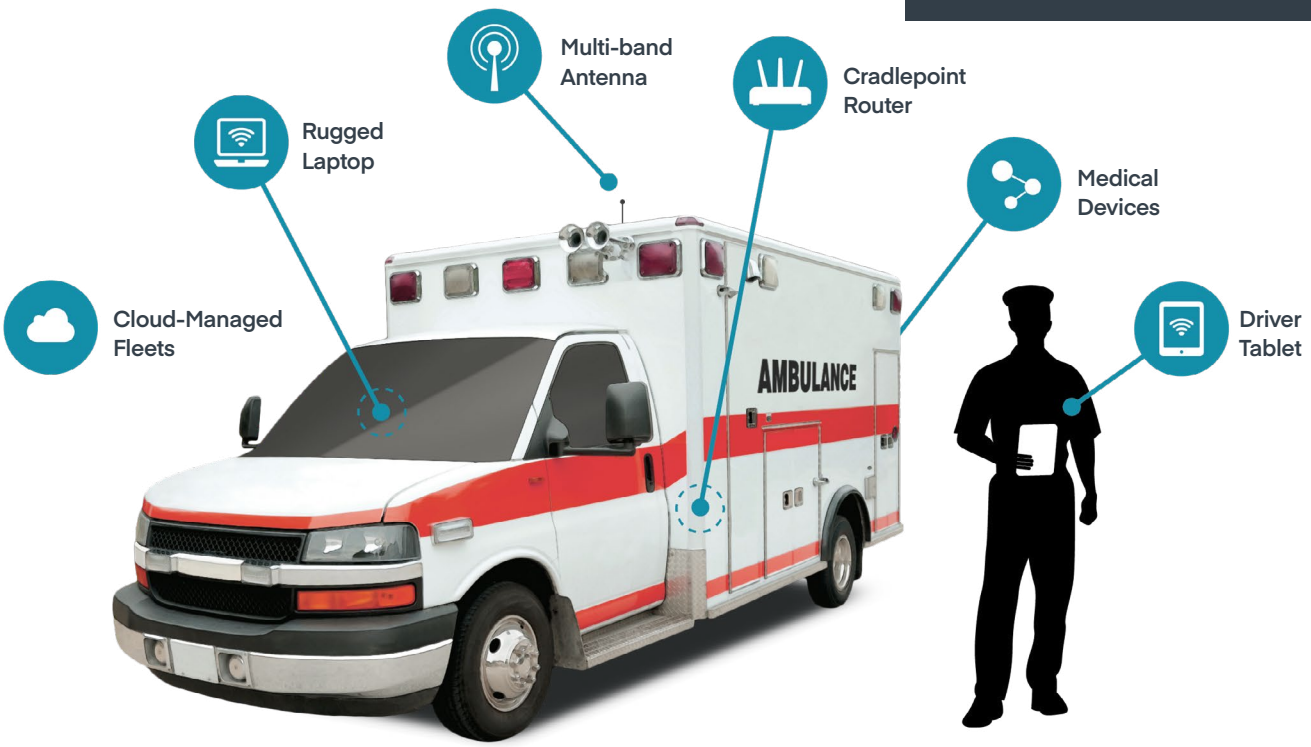
Whether it's police officers protecting communities, paramedics responding to a medical emergency or firefighters executing rescue operations, emergency medical services (EMS) teams are constantly on the move. Police cars, ambulances, central dispatch, and other first responders need flexible mobile connectivity that can stand up to physical abuse, high and low temperatures, varying moisture levels, and physical contaminants, all while still performing flawlessly. The demands for high availability in these applications are not only mission-critical but also life-dependent in most cases.

Solution: Flexible, Cloud-Managed Wireless Networking

Cradlepoint has the most flexible, rugged, dependable solutions on the market for EMS applications. These wireless solutions are deployed in thousands of EMS applications worldwide. At the federal level, Cradlepoint's ruggedized devices are inside troop carriers, helicopters, and jet aircraft. Cradlepoint equipment is so light that advance ground troops carry it in their backs and so tough that fire rescue teams take it into the rugged backcountry to maintain secure communications and GPS positioning.

Improving Public Safety

Sensors aboard ambulances can track consumption of medications for billing, stocking, and compliance purposes – and can notify a supervisor anytime a regulated medication is dispensed.



Cradlepoint's Advantages for Emergency Services

- **Ruggedized connectivity:** Cradlepoint's solution for emergency services is a compact, ruggedized network solution designed for mission-critical connectivity in the most challenging environments. With an extensive list of safety and hardening certifications, this solution is engineered to protect against extreme temperatures, humidity, shocks, vibrations, dust, water splash, reverse polarity, and transient voltage.
- **Remote monitoring, maintenance & updates:** Wireless networks require constant management. When the network is always in motion, consistent physical access to equipment is impossible. Cradlepoint's cloud-based management software makes it simple to configure, deploy, and maintain emergency service fleets.
- **Connected to the cloud:** Today's organizations benefit from the advantages of virtualized and cloud-based enterprise services and applications, which require uninterrupted connectivity and best-in-breed security. Cradlepoint solutions allow you to maximize the benefits of cloud management and security without losing your connection when you need it most.

Summary

The ability of EMS organizations to operate to protect their communities and save lives is ever more dependent on technology to execute real-time applications. Equipped with right-sized Cradlepoint solutions, emergency responders can be tracked and coordinated more effectively, firefighters can react faster to save lives, and police departments can better protect and serve.

Providing Internet connectivity with best-in-breed cloud applications and management gives emergency service IT teams the cutting-edge resources they need to serve the public.

Success Story

UVA Health System

UVA Health System developed a toolkit with telehealth capabilities that links field emergency professionals to the UVA emergency room while stroke victims are being transported via ambulance. Getting a neurological assessment started en route instead of after arrival at the hospital can save lives and prevent paralysis, speech, vision problems, and permanent disability.

The iTREAT toolkits — they include include a tablet, high-speed modem, and portable magnetic mount antenna — aim to enhance prehospital diagnosis, emergency triage, treatment times, and patient outcomes. A live video link between the ambulance and specialists in the UVA emergency room is a ground-breaking addition — but it's only possible with a continuous high-speed connection.

UVA Health System selected Cradlepoint's ruggedized COR Series routers to facilitate reliable LTE cellular broadband connectivity at a price that would enable deployment across rural and urban areas. First responders now have a highly reliable, cost-effective toolkit that can save time, money, and lives.

"It's been a straight forward process. A couple passwords here and there and we get it out into the field."

Brian Gunnell,
Senior System Engineer, UVA Health System's Center for Telehealth