

Mobile Public Safety



An increase in community safety is directly related to lower crime rates and faster emergency response times. A wireless mobile broadband network enables access to critical information and communication to dispatch centers and other mobile public safety workers from the field, improving efficiencies

HIGH SPEED MOBILE ACCESS FOR PUBLIC SAFETY

A mobile broadband network delivers reliable high speed data and video access keeping public safety workers connected. For example, downloading building maps and HAZMAT information while en route, can enable firefighters to be better prepared when they arrive at a fire. Command and control officers can communicate with multiple first responder units, directing them to where they are needed most, and coordinating their efforts.

Using low speed data connections it typically takes about 20 to 30 seconds for a police officer to receive a text-only description of a registered vehicle owner. By using a Wi-Fi network they can get a full color photo of the registered owner's driver license in less than 10 seconds. This not only improves officer efficiency but can help them to quickly identify a potentially dangerous suspect even before leaving the safety of their vehicle.

In-vehicle video can be used to transmit real-time video of an incident to headquarters increasing officer safety and serving as evidence in legal matters. Video can also be transmitted to multiple vehicles providing first responders with real-time visibility into an emergency in progress enabling them to be better prepared when they arrive on scene.

Benefits

- Reduces emergency response time, increasing community safety
- Increased efficiencies enabling workers to spend more time in the community
- Faster access to information improves scheduling, communication, and safety
- Two-way video enhances safety of public safety personnel

Key benefits of Mobile Public Safety over a Wi-Fi network

- Field-based access to information improves public safety worker efficiencies and community safety; includes access to criminal records; wants and warrants tracking systems; HAZMAT data; Geographic Information Systems (GIS)
- Tactical networks around crime or accident scenes helps first responders communicate among themselves and with local resources such as hospitals
- Tactical temporary extensions of the mobile broadband network can be quickly deployed during community events, fairs and other non-permanent venues
- Mobile radio and GPS capabilities enable faster dispatch by identifying closest first response vehicle to an incident site
- Enables filing of reports from the field so that first responders spend more time in the community

"The Tropos MetroMesh network helped us reduce emergency response times by up to 30 percent."

Bill Marion
Milpitas Information Services Director

“Our Wi-Fi network allows officers to take their office mobile. Because our officers now have broadband access to critical information, they can more quickly solve crimes in our community.”

Susan E. Manheimer
Chief of Police San Mateo Police Department



Tropos MetroMesh Solution Partners

- **Computer Aided Dispatch:**
Tiburon, American Tritech
- **Gunshot Detection &
Location Identification:**
ShotSpotter
- **Mobile Telemedicine:**
General Devices
- **Secure VPN Roaming:**
Netmotion
- **Video Recording Software:**
On Net Surveillance Systems

Tropos Technology Differentiators

- **System Scalability** - One, two or three radios
- **Flexibility** - Fixed and mobile radios
- **Reliability** - Always-on dual redundant paths
- **Dynamic Routing** - IP, RF and multicast
- **Mobility** - Seamless handoff without session disconnect

MULTI-USE NETWORK

Tropos' unique MetroMesh Wi-Fi network solutions deliver scalable bandwidth and operational flexibility to securely support multiple applications on the same infrastructure. In addition to the primary mobile public safety application, a single network can be designed to also support a range of other municipal services such as:

- **Automated utility meter reading** – Centralized monitoring of water, electrical and gas meters for fast alert to problems as well as accurate meter reading in real-time
- **Mobile city workforce** – Fast, easy access to records and filing of reports from anywhere around town, improving efficiencies
- **Intelligent transportation system management** – Replaces leased lines to traffic signals for centralized management and can also support video for traffic, red light runner monitoring

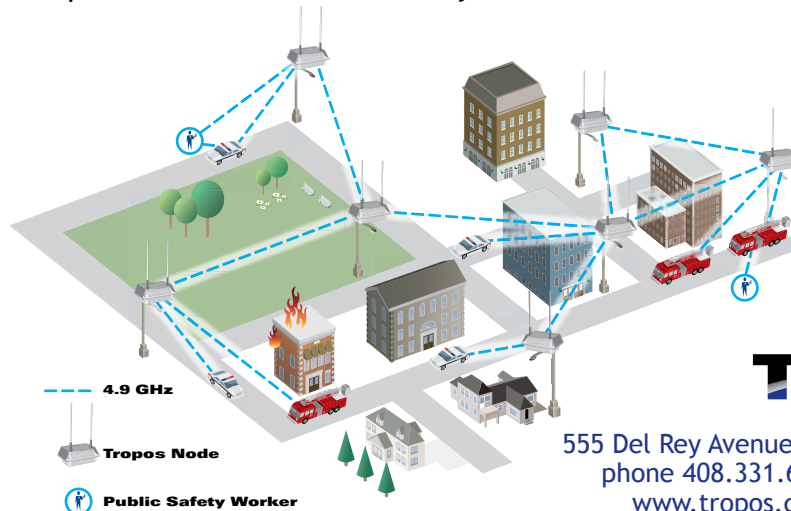
PUBLIC SAFETY BUILDING BLOCKS

The Tropos broadband wireless nodes are installed outdoors on street fixtures such as light poles, providing Wi-Fi coverage over the desired area. High powered Tropos mobile routers in public safety vehicles connect to the fixed network extending coverage and capacity around an accident scene. If the network is not available or is out of range, the mobile routers form a standalone network supporting Wi-Fi communication between officers with Wi-Fi enabled hand-helds, vehicles, and the fixed wireless network which connects to the Internet.

Built with reliability and security in mind, Tropos networks can operate in both the 4.9 GHz Public Safety band, the 5.8 GHz UNNI band and 2.4 GHz Wi-Fi band. Industry leading routing algorithms allow for simultaneous dual paths in the network which provides network reliability, path redundancy and fault tolerance.

Customers using Tropos MetroMesh networks today for mobile public safety include: Milpitas, CA; Oklahoma City, OK; Las Vegas, NM; San Mateo, CA

Tropos Metro-Scale Mobile Public Safety Network



TROPOS
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