

# Mobile Workforce



With 50% or more of municipal workers being mobile, network access from the field is fast becoming an indispensable part of increasing the efficiencies of city operations. Internet connectivity enables secure access to centralized information, and the ability to file reports from the field, in real-time, improving the flow of day-today business.

## BENEFITS

- ❖ Reduces operating costs and time spent in transit to office
- ❖ Tracking of vehicles enables dispatch of closest workers in emergencies
- ❖ Ability to access data and file reports from the field improves worker productivity and flow of business

## Increasing Efficiencies of Mobile Workers

As communities look for responsive high quality services, cities are striving to meet this demand but often are resource constrained. While increasing worker efficiency by providing on-demand information in the field, a city wide Tropos network also decreases the operational costs of city services. City planners are increasingly aware that access to a mobile wireless broadband network will greatly contribute to a city's efficient operation. Typical field access applications include access to centralized databases, Internet resources, download of data or video files and synchronization of work orders. City workers can connect to the network with any Wi-Fi device - laptop or handheld.

### Key benefits of Mobile Workforce applications over a Tropos wireless IP broadband network

- ❖ Building and code inspectors can file reports and access data while on-site, speeding the approval process
- ❖ City planners can access building blueprints and zoning plans while in the field, saving expensive drive time and cost
- ❖ Central dispatch can schedule tasks, track status and changes to schedule for mobile workers, increasing efficiencies and improving customer service

"... It will enable municipal employees to work in the field without having to return to an office to use traditional landlines to complete their tasks... Houston's workforce will be more productive."

Bill White  
Mayor of Houston

“The citywide Wi-Fi mesh network is a strategic decision as it will enable us to move towards our goal of further enhancing city municipal services and improving the efficiency of our mobile workers.”

Terry Huval  
Director Lafayette Utility Systems



### Tropos MetroMesh Solution Partners

- ❖ **Secure VPN Roaming**  
NetMotion

### Tropos Technology Differentiators

- ❖ **Performance** – Multi-megabit capacity, low latency
- ❖ **Security** – Layered, military-grade security; VPN support
- ❖ **Mobility** – Seamless roaming across entire coverage area
- ❖ **Reliability** – Mesh architecture creates redundant paths; patented routing algorithms increase resiliency
- ❖ **Scalability** – Can be used across 10s, 100s, and 1000s of square miles
- ❖ **Management** – Most comprehensive configuration, analysis, and reporting

## Multi-use Network

Tropos’ wireless IP broadband network solutions provide a reliable and secure foundation for delivery of multiple simultaneous applications on the same cost-effective infrastructure. In addition to mobile worker applications, a single network can be designed to support a range of municipal services.

- ❖ **Automated utility meter reading** — Remote monitoring of water, electric and gas meters, providing fast alerts to problems and accurate meter readings in real time
- ❖ **Mobile public safety** — Enabling police, fire and emergency service personnel to effectively communicate and obtain real time video and data information from the field
- ❖ **Intelligent transportation systems** — Replaces costly leased lines to traffic signals; offers the bandwidth to support signal management, video, red light runner monitoring, etc.

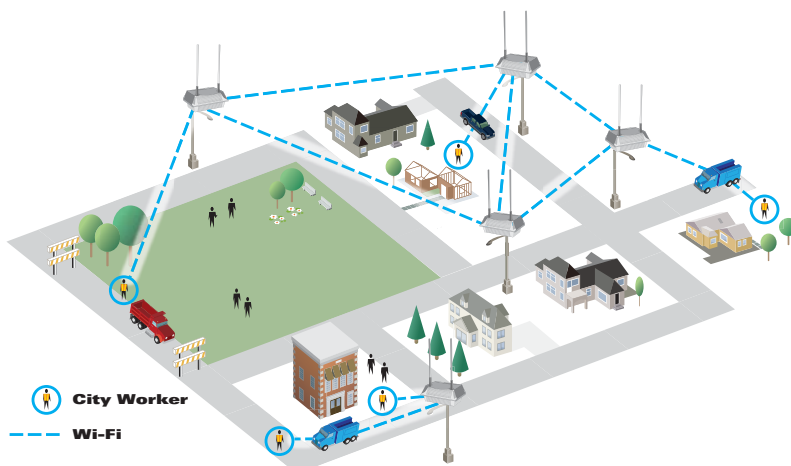
## Mobile Workforce Network Building Blocks

High powered Tropos routers installed on street furniture can blanket the city with wireless coverage. The network offers connections to any standard Wi-Fi enabled wireless device. Tropos also offers mobile routers, which are installed in vehicles to extend the network’s range and coverage.

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 delivers network reliability, path redundancy and fault tolerance.

Customers using Tropos MetroMesh networks today to improve mobile worker efficiencies include: Oklahoma City, OK; Lafayette, LA; Rockhill, SC

## Tropos Metro-Scale Mobile Workforce Network



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