

Mobile City Workforce



With 40% 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.

Benefits

- Reduces operating costs and increases efficiencies of mobile workers
- Reduces response times for emergencies by tracking location of city owned vehicles
- Ability to access data and file reports from the field improves worker productivity
- Always on redundant model for reliability

INCREASING EFFICIENCY OF MOBILE WORKFORCE

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 Wi-Fi 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 City Mobile Worker applications over a Wi-Fi network:

- Building and code inspectors can file reports and access data while on-site, speeding the approval process
- City planners can access building and zoning plans while in the field, saving expensive drive time and cost
- Workers can schedule tasks, track status and changes to schedule, increasing workforce efficiency and improving customer service
- Ability to accurately identify location of city vehicles enabling dispatchers to send the closest team to respond to emergency situations

"... 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

- **NetMotion** - IP Middleware to support seamless roaming between Wi-Fi and EVDO

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' Wi-Fi network solutions provide a reliable and secure foundation for delivery of multiple simultaneous applications on the same cost-effective physical infrastructure. In addition to the mobile city workforce application, a single network can be designed to support a range of municipal services.

- **Mobile public safety** – Enabling police, fire and emergency service personnel to effectively communicate and obtain real time video and data information from the field
- **Automated utility meter reading** – Remote monitoring of water, electric and gas meters, providing fast alerts to problems and accurate meter readings in **real time**
- **Intelligent transportation system management** – Replaces leased lines to traffic signals for centralized management and can also support video for traffic, red light runner monitoring

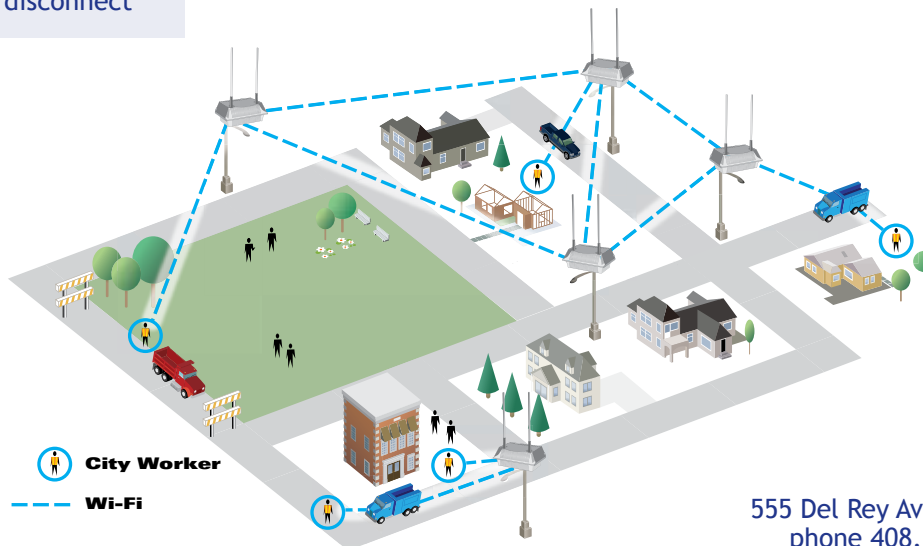
MOBILE CITY WORKER NETWORK BUILDING BLOCKS

High powered Tropos routers installed on street furniture blanket the city with Wi-Fi coverage. The network offers connections to any standard Wi-Fi enabled wireless device. Tropos Networks also offers mobile routers, which are installed in city vehicles with externally mounted antennas to extend the vehicles' 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 mobilize city workers include: Houston, TX; Lafayette, LA; Rockhill, SC

Tropos Metro-Scale Mobile City Workforce Network



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