

Today, cities want to cost effectively roll out citywide Wi-Fi MetroZones to increase city worker productivity while providing low cost Internet access to residents and visitors and facilitating economic development. To meet this municipal need for secure IP-based access and a service delivery platform for mixed-use applications, Pronto Networks and Tropos Networks have created a solution that brings complementary carrier-class metro-scale Wi-Fi mesh network technology and Operations Support System (OSS) software together.

Now, with this joint solution, cities can quickly deploy a metro-scale Wi-Fi mesh network for public safety and offer Internet access to capture revenue from businesses and residents.

Tropos and Pronto have developed the MetroZone Pilot Pack for cities that want to deploy Wi-Fi at a low cost of entry in a localized area of 1/3 to 1/2 square mile. The Pilot Pack is a turnkey solution that comes pre-packaged from one vendor with all the components needed to get a Wi-Fi network up and running within hours. The joint solution enables Internet access across MetroZones today, and provides an advanced service delivery platform for emerging value-added services such as voice services, location-based content management, online gaming, music downloads, advertising and much more. The solution is based on many successful deployments in municipalities today, and is grounded in standards to ensure compatibility with evolving technology. It also offers an upgrade path to grow with additional users.



The Tropos 5110 outdoor Wi-Fi cells and the Pronto Hotzone Gateway & OSS seamlessly interoperate to very quickly provide carrier-class Wi-Fi connectivity over a metro-scale.



BENEFITS

- Enables quick deployment of a Wi-Fi mesh network at a low entry cost
- Allows various types of users to have their own secure access to the broadband wireless mesh network
- Uses standard Internet browser-based username and password access
- Offers different price plans for different types of users – municipality employees, residential subscribers, visitors, and businesses
- Provides an upgrade path for growth
- Offers the full functionality of the Pronto and Tropos products
- Includes standard customer support

The Pronto MetroZone Pilot Pack combines the Pronto Hotzone Gateway and Operations Support System functionality. The Pilot Pack is designed for metro-scale networks to streamline Wi-Fi deployment and minimize ongoing operations costs. The OSS provides a range of subscriber access, billing, customer care and subscriber monitoring functions required to deliver and bill for Internet services. These advanced subscriber management functions include multiple authentication methods, customer self-service and customized branding on splash pages. Flexible billing options such as prepaid cards and subscriptions for paid and free access give a city many options for offering free and paid Internet access.

The MetroZone Pilot Pack is a complete hardware and software appliance that incorporates the OSS and Pronto's Hotzone Gateway functionality into one convenient package that resides in the city's data center and connects the WLAN mesh network to the Internet via a broadband connection. The Pilot Pack appliance manages all subscriber access, authentication and accounting (AAA) functions, monitors system availability and performance, Quality of Service (QoS) and Service Level Agreements (SLAs), and customer care and billing functions. The OSS uses advanced SSL encryption and digital certificates to provide security for subscriber transactions, and supports corporate VPNs.

Pronto OSS Features

- Authenticated access for city employees
- Customizable service plans for residential and business users
- Customised splash pages and pricing for businesses and visitors
- Customer Care and Self Care Portal, for enhanced subscriber experience
- Centralized billing and a variety of usage reports
- Subscriber monitoring and management to prevent fraudulent use

To accommodate more users, we recommend installing the Pronto OSS software that has enhanced capabilities and the flexibility to handle very large deployments.

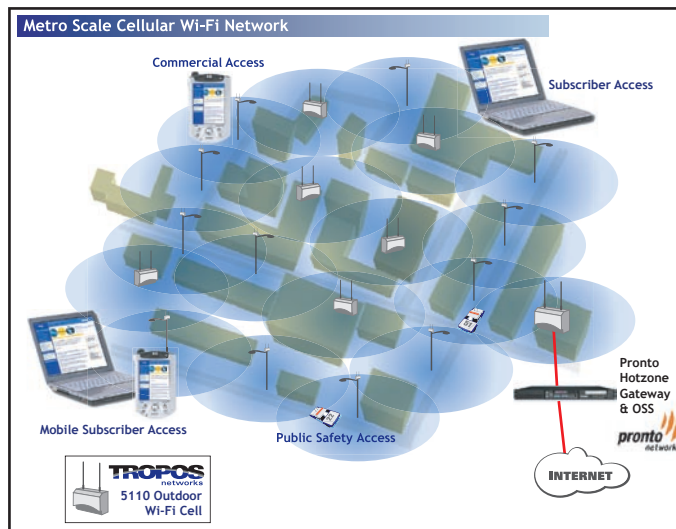
Visit www.prontonetworks.com for additional information.

The Tropos Wi-Fi cell family combines the extended range of cellular technology with the high bandwidth of 802.11 to create anytime, anywhere broadband data networking. Tropos Networks™ technology adds intelligence to Wi-Fi to enable deployments that were previously difficult or impossible. The result: broader coverage, minimal installation and cabling costs, and rapid deployments.

The Tropos Wi-Fi cells communicate with each other wirelessly through the patented Tropos Predictive Wireless Routing Protocol (PWRP™)

implementing the industry's first cellular Wi-Fi mesh routing algorithm. The Tropos PWRP creates a self-organizing and self-healing wireless mesh, and intelligently selects the most optimum data path to the wired network. The control protocol is part of Tropos Sphere™, an intelligent wireless network operating system to extend coverage and optimize performance.

Tropos Wi-Fi cells require only power and can be deployed anywhere it is available. Each Wi-Fi cell provides wireless connectivity to standard 802.11b clients and extends the coverage area of the cellular Wi-Fi network. The Tropos 5110 is NRTL certified for outdoor installation and can be mounted on external structures such as buildings or lampposts to quickly implement citywide applications such as police data communications or public wireless access.



Tropos 5110 Outdoor Wi-Fi Cell Features

- High-performance integrated 1W 802.11 radio
- Session-persistent roaming, across multiple IP subnets
- 802.3af Power over Ethernet (PoE)
- Secure local and remote configuration via HTTPS
- Tropos Sphere NOS layer 3 mesh routing intelligence
- Redundant, self-healing network architecture
- Full VPN compatibility

The system is easily expanded by adding additional Tropos 5110 outdoor Wi-Fi cells, or Tropos 3110 indoor Wi-Fi cells. Central management of large networks is easily accomplished with the addition of the Tropos Control Element Manager.

Visit www.tropos.com for additional information.

MetroZone Pilot Pack HZK-5 Components:

- Five (5) Tropos 5110 outdoor Wi-Fi cells w/Complete Connect Kit†
- One Pronto Hotzone Gateway††
- Pronto OSS software and license for 100 concurrent users
- One year technical support
- One year parts and labor hardware warranty

†Tropos Complete Connect Kit consists of:
five (5) power cables and
one (1) weatherproof gateway connection.

††Pronto Hotzone Gateway hardware specs:
Intel Xeon processor, 2.8 Ghz or better
2 x 120 GB hard disks
2 x 10/100 and 1 serial interfaces
19" rack-mountable enclosure
Linux operating system

ORDERING INFORMATION

For more information, and to order the Pronto/Tropos MetroZone Pilot Pack HZK-5, please contact Cathleen Crowley at 408.331.6855 or email metrozone@tropos.com.