



Protect and Serve with SkyPilot Mesh Networks and 4.9 GHz Applications for Public Safety

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With the 4.9GHz licensed spectrum available for use by public safety agencies, wireless broadband networks are suddenly making a lot of sense for municipalities. And not just any wireless broadband— wireless mesh networks specifically.

A synchronous mesh solution is ideally suited for mission-critical deployments that are required for delivering public safety services. A wireless mesh is a self-forming, self-healing network that installs quickly and easily and requires minimal ongoing management. The mesh topology automatically creates multiple wireless paths, allowing the network to overcome obstacles, expand readily into new territory and deliver mission-critical reliability. The SkyPilot mesh solution has the advantage of a smart antenna array to achieve a range of up to 10 miles per link, route around obstructions, and ensure high-quality performance for data and voice traffic. More municipalities have chosen SkyPilot mesh for public safety and municipal applications for these— and other— reasons.

Municipalities such as North Las Vegas are also using a video surveillance network to protect essential water supplies and to safeguard against theft and vandalism of utility infrastructure. Triad Wireless in Phoenix, Arizona, deployed a mesh network utilizing the 4.9GHz public safety licensed spectrum for backhaul to support over 40 surveillance cameras and covering up to 140 square miles.

A mesh network is exceptionally flexible, enabling municipalities to deliver 4.9GHz public safety applications and other services such as low-cost or free community Wi-Fi Internet access over the 2.4GHz spectrum. For example, in Portland, Oregon, the SkyPilot network will support mobile public safety and public works employees as well as public Internet access. Property inspectors and other field-based employees will be equipped to wirelessly download and upload reports and data from the field, improving productivity and responsiveness to citizens' needs.

Today's wireless mesh networks delivery a new level of flexibility, reliability, and cost effectiveness that enable municipalities and city agencies to effectively address concerns of protection and security of the community and its assets.

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