

# Seattle's Chinatown is safe and secure using the new ePMP



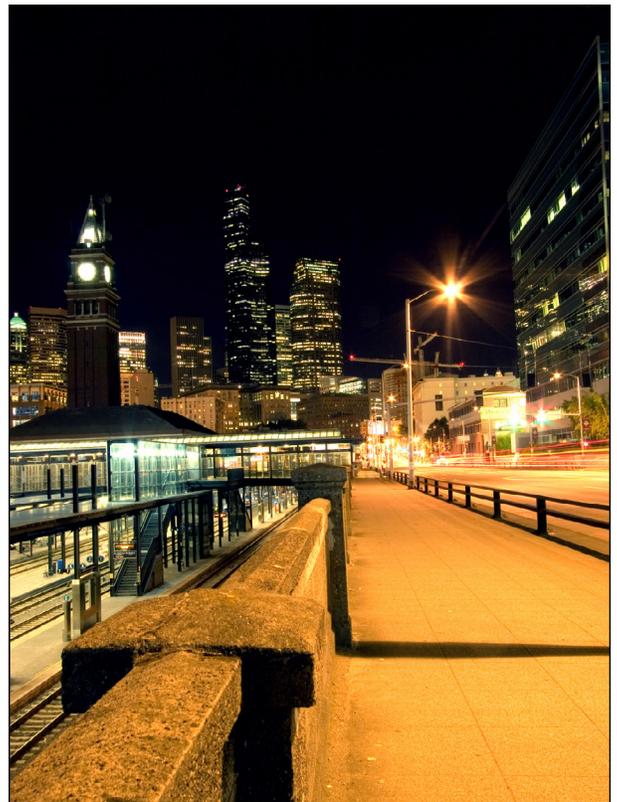
## Situation

The busy Chinatown International District is the historic center of Seattle's Asian community where Chinese, Filipino, Japanese, Vietnamese and Southeast Asian populations live and work together. It is one of Seattle's six BIAs (Business Improvement Areas), a city initiative providing a mechanism for businesses and property owners to obtain improvements for their districts. Maintaining a flourishing business environment and fostering social relationships is vitally important for the development of this international neighborhood.

The previously implemented wireless mesh surveillance system connected nine cameras over a six square block area to maintain safety. This system was inefficient, unreliable and difficult to support, causing information loss. To better serve this booming multicultural community, Cascade Networks had to find an effective solution that would be easier to maintain and expand going forward.



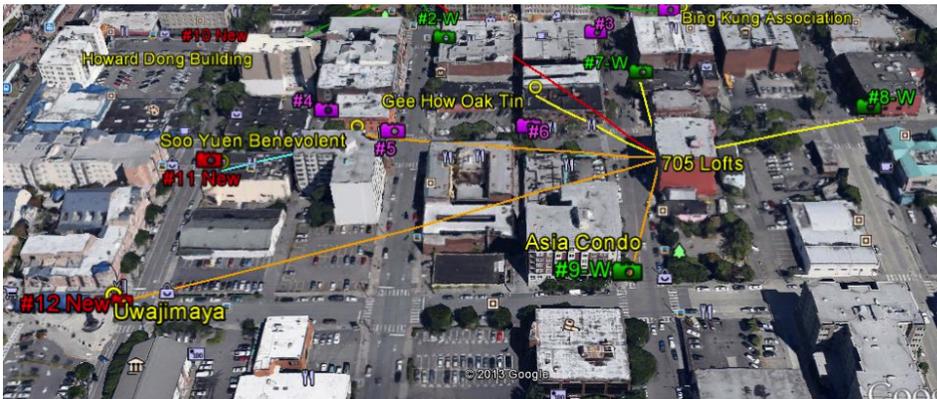
Jackson Street Trolley



Seattle Train Station

## Solution

Cascade Networks, which has successfully provided wireless business and residential connectivity services in the Pacific Northwest for many years, selected the ePMP solution from Cambium Networks. This platform was a perfect fit for this project, delivering reliability and configuration flexibility. The District's new ePMP network architecture, an integrated point-to-multipoint (PMP) and point-to-point (PTP) installation, was deployed within several hours. It preserves public safety and inspires local entrepreneurs to establish or expand their businesses in



Google earth view of the network

## Results/Customer Benefits

The ePMP solution from Cambium Networks established a reliable and cost-effective video surveillance service in this bustling metropolitan neighborhood. The community has once again been assured a high standard of public safety and is enjoying a renewed sense of economic and social growth possibilities.



“The success of the Chinatown International District, one of Seattle's key business improvement areas, hinges on the ability of its business owners to work together in creating a safe, flourishing commercial environment in this emerging neighborhood. The existing mesh networking architecture that had been supporting their video surveillance was unreliable so we quickly made an effective equipment change,” said Brian Magnuson, President, Cascade Networks. “We found exactly what we needed with ePMP. Its reliability for high-quality video surveillance is outstanding, enabling us to offer the District peace of mind.”

**BRIAN MAGNUSON, PRESIDENT, CASCADE NETWORKS.**

### The most beneficial ePMP features used in this deployment are:

- Downlink/Uplink Ratio Adjustment Capability helps to regulate downlink/uplink traffic based on video surveillance services that require greater uplink resources.
- TDD (Time Division Duplexing) Cycle synchronized by GPS enables frequency reuse and scalability for APs (Access Points) on a tower. In a four sector deployment, only two frequencies are required.
- Graphical Web-based Management User Interface provides comprehensive fault, configuration, performance and security management functions. It is powerful, intuitive and offers a comprehensive feature set.
- Low 5-10 W power consumption minimizes the hardware configuration changes needed to operate and power the new equipment.
- Flexible power options with Cat 5e cable allow operation on a 12 VDC power supply that was already installed in the exiting radio locations.