

Seattle's Chinatown is safe and secure using ePMP



Situation

THE BUSY CHINATOWN INTERNATIONAL DISTRICT IS THE CENTER OF SEATTLE'S ASIAN

American community. This is where Asian Americans live and work together. It is collectively called a BIA (Business Improvement Area), providing a mechanism for businesses and property owners to obtain improvements for their district. Maintaining a flourishing business environment and fostering social relationships is vitally important for the development of this international neighborhood.

The existing wireless mesh surveillance system connected ten cameras over a six square block area to maintain safety. This system was inefficient and unreliable causing information loss, and was difficult to support. Cascade Networks decided to find a better solution that would be easier to maintain and expand going forward, serving this booming multicultural community.



Jackson Street Trolley

Solution

CASCADE NETWORKS, WHICH HAS successfully provided wireless business and residential services in the state of Washington for many years, selected the ePMP solution from Cambium Networks. This solution was a better fit for their needs because it delivered resiliency and configuration flexibility. It helped to preserve public safety and provide conditions for further business expansion. The new architecture was deployed within several hours and all radios were configured for an integrated PMP-PTP solution.

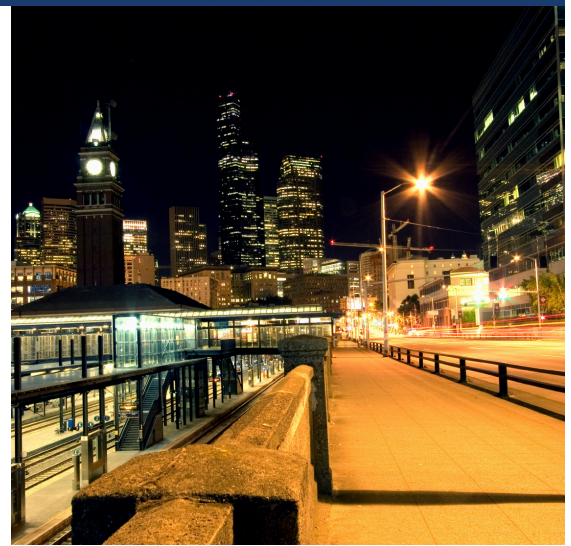
Results/Customer Benefits

THE EPMP SOLUTION FROM CAMBIUM NETWORKS ESTABLISHED

a reliable and cost-effective video surveillance service in the busy Chinatown International District. The first installation was so successful, flexible and easy to maintain that Cascade Networks decided to roll-out similar systems across other districts. This includes businesses and university complexes in the area. Finally, the community got the safety reassurance it needed and the ability to look forward towards new levels of economic growth.



Google earth view of the network



Seattle Train Station

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 to operate on a 12 VDC power supply that was already installed in the exiting radio locations

“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.