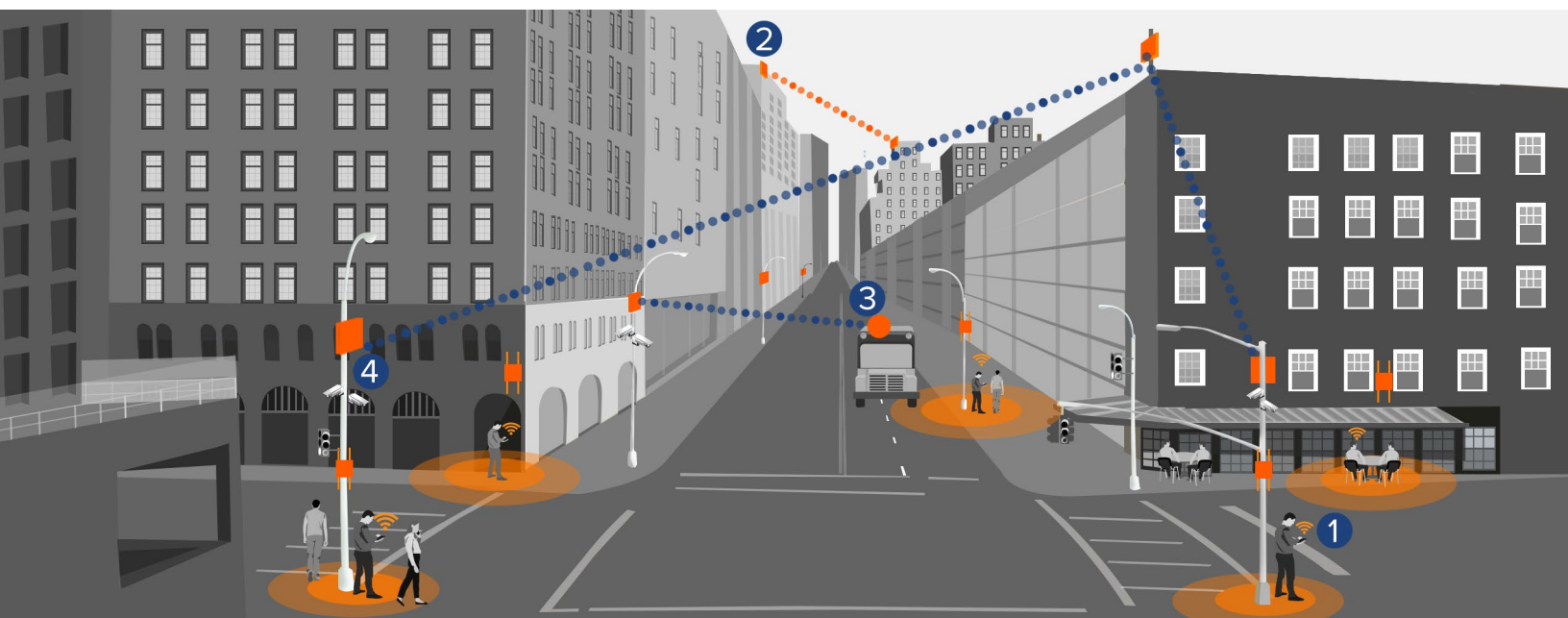# Proxim Wireless for Smart Cities

Today, cities across the globe are getting 'smarter'. City governments want virtually everything to be connected, from traffic signals and parking meters to convention centers, shopping districts and public transportation. Safety and security is an important part of their 'smart' endeavor too with video security being an additional, mission critical application. Additionally, residents expect cities to provide ubiquitous WiFi just as another utility such as water or electricity.

To support all these applications in on a single network, municipal and government IT teams require carrier class networks with advanced QoS that run with virtually zero downtime. At the same time these deployments must meet cost constraints to make their 'smart city' implementation economically viable.

Proxim Wireless Supports a Wide Variety of Solutions

1 Public WiFi Hotspot   **2** Infrastructure Connectivity   **3** Public Transportation Connectivity and WiFi   **4** Surveillance Connectivity
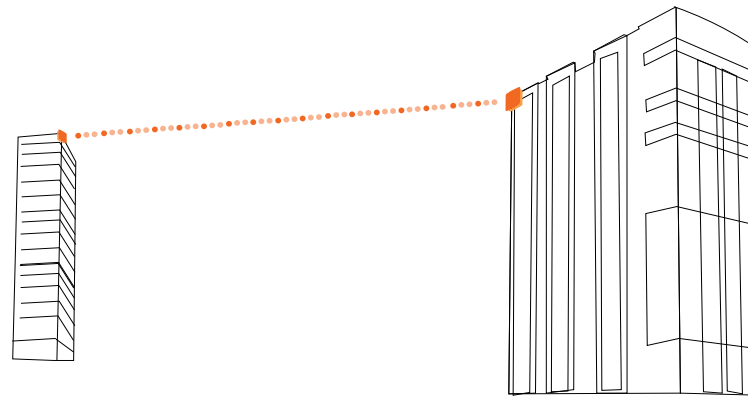
Proxim Wireless Solutions

Public WiFi Hotspot

Purpose built for outdoor WiFi, Proxim's Tsunami® XP-10100 offers an integrated backhaul and access point solution to provide unparalleled ease of installation and management. Proxim's XP-10100 as well as ORINOCO® outdoor access points offer over 1 Gbps real world throughput and come in IP67 grade enclosures to ensure maximum durability and weather, humidity and dust protection.
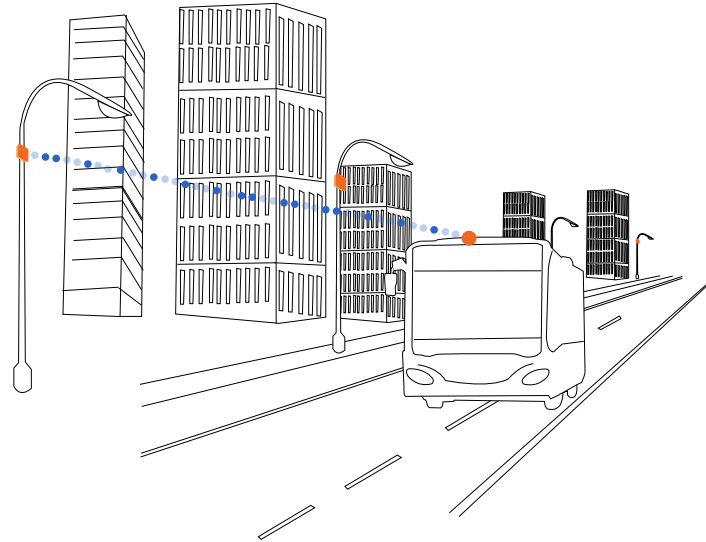
Infrastructure Connectivity

Connect everything from parking meters and toll gates to traffic lights with the help of a wide range of point to point and multipoint Tsunami® wireless solutions. Tsunami® solutions come in a variety of bandwidth options from 25 Mbps to over 600 Mbps real world speeds.
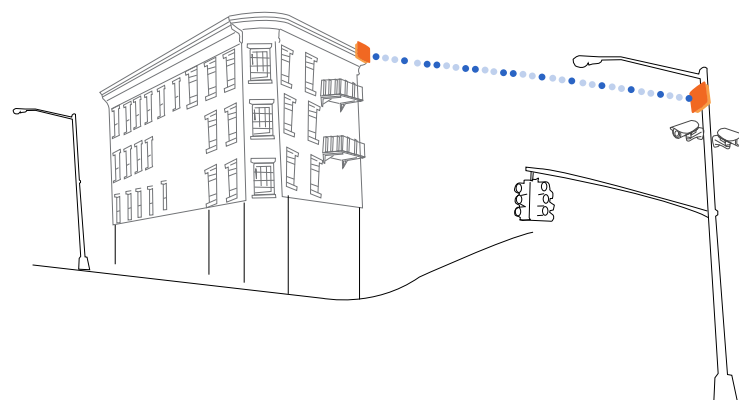
Public Transportation Connectivity and WiFi

Connect buses, trams, and ferries to your core network with Proxim solutions. The Tsunami® product line incorporates Proxim's advanced mobility technology – FastConnect™ that allows seamless connectivity at speeds of up to 185 mph.

Surveillance Connectivity

Proxim offers a comprehensive portfolio of wireless solutions for outdoor video surveillance transmission. Proxim's Tsunami® point to point and point to multipoint solutions offer superior QoS (WORP),and exceptional interference immunity technology – Proxim ClearConnect™. Between these technologies Tsunami networks are able to enforce strict QoS and SLAs for delay sensitive packets such as voice and video to ensure minimal jitter, packet loss and latency.

Why Proxim for Your Organization

> "We wanted to get the best data rate we could to give us flexibilities in the future," said Ho. "On the service side, Proxim has continuously demonstrated its capabilities as a collaborative partner. Proxim has provided superior customer support. They've helped us through the entire process, and we're looking to them for support, both now and in the future."

High Availability and Reliable Connectivity

Proxim ClearConnect™

Ensures Proxim Tsunami® radios operate even in the most hostile RF conditions where other standard wireless technologies simply fail to perform. It offers a host of adaptive features including Dynamic Channel Selection, Satellite Density, Beam Steering and many more to ensure high spectrum efficiency with minimal error rates.

WORP®

Proxim has invested over fifteen years of continuous development and wireless expertise to create our Wireless Outdoor Routing Protocol known as WORP®. WORP® is a reliable, secure, and highly efficient protocol that guarantees delivery and optimal performance with Quality of Service controls, supporting quad play applications on a single wireless network such as mobility, video surveillance, VOIP and other delay sensitive multimedia applications. WORP® also helps ISPs control bandwidth and differentiate service offerings with the ability to enforce SLAs. Learn more about the WORP® advantage here.

Seamless Connectivity for Train to Trackside Applications

Proxim FastConnect™

Delivering wireless broadband for trains, vehicles and metros with true mobility support and with unparalleled throughput of 600 Mbps, Proxim FastConnect™ supports session persistence for real time applications. With extremely fast handoffs, and the buffering of data during the actual hand off period, WORP® ensures an application will experience zero packet loss during a hand over from one base station unit to the next, a critical feature for applications such as onboard video security, or VoIP sessions.

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