

APPLICATION NOTE

HOMELAND SECURITY & SURVEILLANCE



OVERVIEW

Homeland Security and Surveillance

Enhancing security has become a major initiative for every type of organization worldwide – from general retail stores to secret military installations. When it comes to offering protection outdoors, however, organizations are faced with major costs and installation nightmares. That's why some of the most security-sensitive organizations have started turning to Proxim's fixed wireless networks for reliable, affordable surveillance that can secure the toughest outdoor environments.

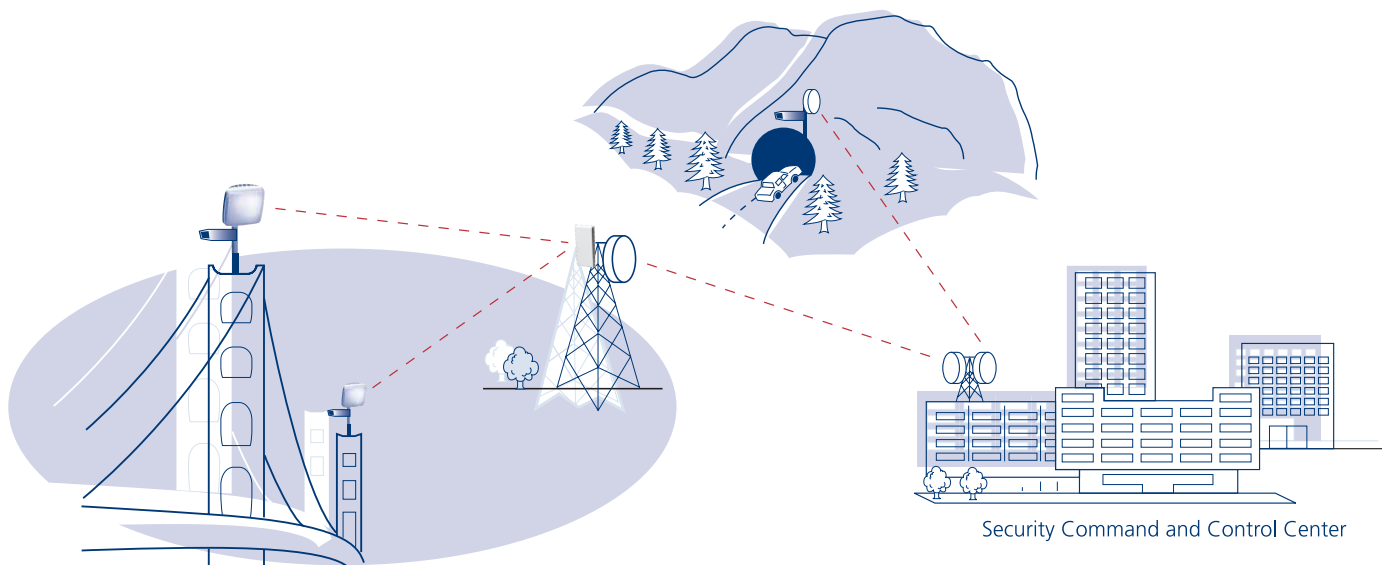
Affordable, rapid deployment is simple.

Whether you're concerned with providing security to students on a university campus or safeguarding a national waterway, the challenge is the same: how to connect surveillance cameras in places where running wires is either cost-prohibitive or impossible. Proxim's wireless Ethernet systems provide a simple solution.

Modern security and surveillance video cameras can convert images into Internet protocol (IP) packets that can be easily transmitted using Proxim's wireless point-to-point and multipoint systems. Cameras at multiple locations are simply connected to Proxim's Tsunami Multipoint Subscriber Units, which can send the data back to a Base Station located at an organization's security command and control center. If needed, a Proxim high-performance point-to-point solution can be used to connect to a remote site under surveillance up to 40 miles away from the center. The high-resolution video collected from all the locations can then be downloaded to a large viewing screen at the command and control center.

Proxim's wireless solutions install in hours and provide unparalleled flexibility. Because the security network is wireless, the cameras are not permanently fixed in one location. If necessary, the camera and subscriber units can be moved to a new location at a moment's notice and reconnected within minutes.

With wireless security, users no longer need to spend a bundle on wiring. Even when fiber is possible to deploy, it often costs three to five times more than Proxim's wireless systems. Just a few miles of trenching can cost hundreds of thousands of dollars.



Reliable, high-speed networks ensure non-stop security.

Tsunami users need not worry about dropped packets that could interrupt surveillance. With 99.999% carrier-class reliability, Tsunami ensures the continuous transmission of real-time images. Designed to perform in harsh outdoor environments, the systems are virtually weatherproof.

Central to Tsunami's powerful capabilities is the bandwidth required to transfer high-resolution video. The Tsunami family has a range of solutions suited to the needs of different types of networks. With up to 54 Mbps capacity, Tsunami MP.11 is ideal for applications such as shopping mall surveillance. Organizations requiring more robust security capabilities – such as enterprises and military bases – can choose among a complete line of point-to-point and multipoint solutions. Point-to-point bridges can transmit up to 860 Mbps and up to 40 miles, while multipoint systems provide speeds up to 360 Mbps and can be located up to 12 miles away.

Improved security is now a reality for everyone.

With Proxim, security systems can now be made readily available to organizations that never thought of installing surveillance due to cost limitations. There are a large number of applications for outdoor security, and for many organizations, this security is an important level of service they can now provide.

Enterprises

Provide perimeter security for your buildings; monitor inventory on warehouse loading docks.

University Campuses

Monitor walkways for student protection.

K-12 Schools

Protect children from intruders.

Government

Deploy anti-terrorist surveillance systems for national security including protection of waterways and reservoirs.

Transportation

Secure dams, bridges, highways and tunnels.

Military

Enhance security around military installations.

Shopping Malls

Provide customer security in parking lots.

Municipalities

Monitor traffic intersections for illegal activities and public safety; secure city parks, and municipal buildings such as town halls.

Application	Proxim Wireless Solution	Capacity
Enterprises; military installations; government; transportation; municipalities	Tsunami Point-to-Point Tsunami Multipoint	Up to 860 Mbps Up to 360 Mbps
Shopping malls; university campuses; K-12	Tsunami MP.11	Up to 54 Mbps



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