

The City of Bodrum, Turkey Selects Proxim for its Citywide Video Surveillance Network

Introduction

The port city of Bodrum is the second largest tourist city in Turkey, with a tourist population of over 1.5 million people during the peak months. As a part of an initiative by Turkey's Department of the Interior to roll out video surveillance across the entire country, the Bodrum Police Department commissioned the construction of a city wide wireless video surveillance network.

Challenge

Prior to evaluating wireless backhaul, the city of Bodrum had attempted to utilize traditional wired telecom infrastructure for the video surveillance network. The problem encountered was how to upgrade a wireline solution in what is an old, historical city. It was not feasible or cost effective to trench the number of lines that would have been necessary to provide enough throughput for the large number of cameras to be deployed across the city.

"Not only would digging up the streets of Bodrum compromise the historical integrity of the city, but it would have been completely cost prohibitive," said Faruk Meltem, IT Director of the Bodrum Police Department. "Given the extremely high number of tourists that visit Bodrum and the amount of activity in those areas, we needed a solution that could help our Police force more efficiently protect our people and asserts, without breaking the bank."

Choosing the right wireless system was the next challenge, and Proxim with WOPR and its fine grained QoS was able ensure the video traffic received proper treatment.

Solution

To address these requirements, the Bodrum Police Department turned to STM, a wireless systems integrator, and Corvus, a Proxim distributor, for the overall design and implementation of the deployment. Corvus, which has worked with Proxim on numerous video surveillance networks throughout Turkey, knew from experience that Proxim's radios are optimized to allow the high throughput up-link connections mandatory for video backhaul, and can support throughput for the 70 video cameras.

Overall, STM and Corvus deployed 67 of Proxim's Tsunami multipoint subscriber stations, connected to 37 base stations. They deployed over 70 Pelco digital surveillance cameras, each of which required at least 3.5 Mbps at any given time to provide 25 frames-per-second performance and 4CIF video quality. To allow co-location of Base Stations in adjacent licensed channels GPS was used to synchronize the base stations together for optional performance.

Result:

By utilizing Proxim's Tsunami products, the city of Bodrum saved an estimated \$60,000 per month on leased line costs, while also avoiding the high cost (and damage to the historical city) that would have been incurred by trenching for fiber. Proxim's radios also enabled the network to be deployed in a matter of months, as opposed to the years it would have taken to deploy the necessary wired telecom infrastructure.

"This is the 9th wireless video deployment we have executed with Proxim's broadband wireless technology, and each and every time we have been able to save our customers millions on deployment costs over wired infrastructure," said Atilgan Yilmaz, General Manager of Corvus. "Proxim's technology provides as much bandwidth as – and in some cases more than – wired telecom infrastructure, so when you combine the cost and performance benefits, Proxim is the easy choice for wireless video for wireless video surveillance networks."



Highlights

- By utilizing Proxim's proven wireless technology powered by WOPR, the city of Bodrum saved an estimated \$60,000 per month on leased line costs.
- The solution also avoided the high cost (and damage to the historical city) that would have been incurred by trenching for fiber
- Proxim's radios also enabled the network to be deployed in a matter of months, as opposed to the years it would have taken to deploy the necessary wired telecom infrastructure. With carrier class construction and IP67 rating, this network has been designed to operate for many years.

About Proxim Wireless

Proxim Wireless is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

With over 30 years of wireless experience, Proxim is recognized for its unparalleled reliability, superior performance and drive for innovation.