

URBAN VIDEO SURVEILLANCE NETWORK IN SUMIRAGO, ITALY



Utilising advanced wireless solutions for urban video surveillance

Challenges

- Providing a cost-effective video surveillance solution based on a wireless network;
- Ensuring scalability for future growth of the network;
- To provide high efficiency and throughput in a point-to-multipoint architecture;

Solution Technology

- InfiMan R5000 and R5000 2x2 MIMO point-to-multipoint solutions;
- Dynamic Access Marker software feature for improved network resilience;

Benefits

- Easy to scale up & redeploy camera sites due to wireless infrastructure & InfiNet's software upgrade capability;
- Installation & commissioning of network without intrusive construction techniques;
- Ability to carry other data/voice traffic whilst still prioritising video traffic;
- Highly resilient network .

Introduction

Through 2009, the town of Sumirago had identified the need to deploy a video surveillance network across key areas of the town to offer the local residents and businesses an additional level of safety and security within their community. Sumirago is a small town in the region of Lombardy, located about 40 km northwest of Milan and about 10 km southwest of Varese. SIR.tel. srl., an InfiNet Wireless Gold Channel Partner with extensive experience in the design and distribution of broadband wireless architectures and solutions, was chosen to work in partnership with Tel.e.Sic to plan and deploy the wireless surveillance network across the municipality.

Business challenges

There were essentially two key business challenges in providing Sumirano with an efficient video surveillance system: firstly, to provide absolute scalability in terms of addressing both initial network and camera capacity, with the ability to grow and scale the network in the future without the need to redesign the architecture: and secondly, to provide high efficiency and throughput across the network in a point-to-multipoint architecture, centralized on the operational control centre, again with the ability to extend the camera and video network as required. Naturally, the system also had to be highly resilient given the nature of the traffic it was carrying, and this resiliency needed to be not only part of the architecture of the system, but also from the reliability factor of the wireless units themselves operating in an often variable climate.

