



## Case Study: **Safe City Project in Latin America**

### **RADWIN Chosen for Video Surveillance Transmission**

In an effort to increase public safety and drive down burgeoning crime rates, the government in a Latin America country contracted TADSEC Advanced Homeland Security Technologies Ltd. to plan and deploy their SMART-City™ platform. The project called for the deployment of video cameras and other sensors throughout the city, in public areas and highly-populated urban centers such as airports, industrial zones, schools and community centers.

TADSEC chose RADWIN as its sole provider for wireless transmission solutions. In what is one of the largest projects of its type in Latin America, RADWIN's wireless broadband systems were deployed in dozens of locations. The systems transmit Video & Data traffic from cameras back to a central command center from where personnel can detect and respond to unfolding events.





RADWIN's links collocated on rooftop

**Project Requirements:** TADSEC deployed 300 cameras in a Latin American city. The underlying goal of the 'Safe City' project is to increase public safety and prevent potential crimes and violations.

Areas where cameras were deployed are rife with interference stemming from unlicensed radio activity. To enable transmission from the various camera sites, a robust solution that could operate in high-interference scenarios was needed. Point-to-Multipoint radio solutions were tested, but failed to deliver the required performance.

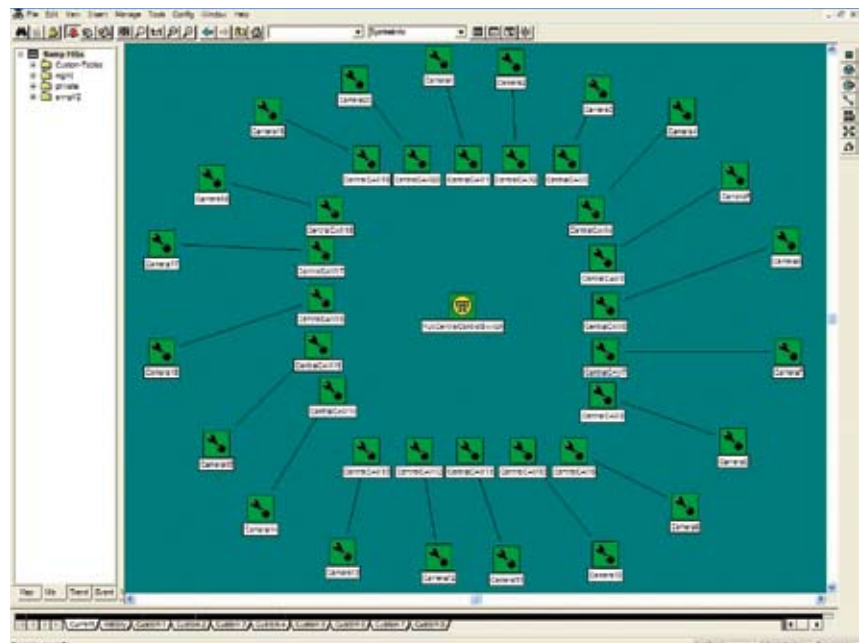
**RADWIN's Solution:** RADWIN's field-proven WinLink 1000 systems were chosen for the project, and RADWIN provided end-to-end project support - from the initial planning and design stages, through to system integration and on-going project support.

The WinLink 1000 systems were deployed in RADWIN's unique Multiple-Point-to-Point architecture, where each point-to-point link provides dedicated bandwidth to the cameras. The systems were installed in twenty hub site locations, with each hub site holding up to 17 collocated radios, all fully synchronized using RADWIN's Hub Site Synchronization (HSS) solution.

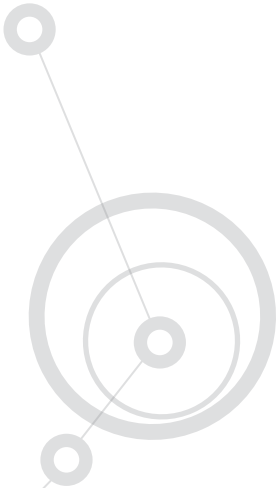
The RADWIN links' Multi-band radio feature enables planners to use several frequencies in the same hub site, ranging from 4.9 GHz (public safety band) to 5.4 GHz and 5.8 GHz. RADWIN's Network Management System (RNMS), deployed in the control center, provides complete visibility and control over the hundreds of links installed throughout the city.

**Key Benefits of RADWIN's Solution:**

- Dedicated point-to-point link from cameras to hub site and control center ensures high quality video transmission
- Unique Multiple-Point-to-Point architecture allows maximum coverage and maximum utilization of the allocated band
- RADWIN's Multi-band radios give planners the flexibility to use the least congested frequency (fully software configurable)
- Links are extremely simple to install and main, enabling a large-scale project to be deployed very fast



RADWIN's NMS (RNMS) enables complete visibility & control of all the links in the network



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