

Success Story: Chicago Police Department

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Chicago Police — Video Surveillance

Since 2003, the Chicago PD has strategically installed video surveillance camera systems in high crime areas throughout the city with impressive results.

The camera systems are actually bullet-proof boxes that include a sophisticated video camera in addition to Wave Wireless' SPEEDMesh™ 9200 wireless mesh routers. The surveillance systems are called PODSS™, a product of RMS Technology Solutions, a System Integrator offering advanced video surveillance. The video surveillance cameras transmit real-time video to a police operations command center via the SPEEDMesh wireless mesh. The video cameras can also be remotely controlled to focus on specific incidents.

The PODSS™ boxes, including cameras and Wave Wireless routers are mounted on 25-foot poles in public areas with a high crime rate. The cameras coupled with SPEEDMesh mesh routers provide television quality picture, with a full 30-frames-per-second of video clarity. Additional SPEEDMesh routers are mounted at appropriate locations to enable video packets to be relayed to backhaul connection points on the city's fiber network.

Recently, the new SPEEDMesh 4.9 GHz routers from Wave Wireless have been installed to enhance security and video quality. According to Paul Zucker of RMS Technology Solutions, "With the new SPEEDMesh 4.9GHz mesh routers, surveillance video travels virtually unmolested on the new 4.9GHz licensed Public Safety band, free from unlicensed WiFi interference. The immediate result is noticeably enhanced video quality." Previously, the unlicensed 5.8 GHz band was used for most of the mesh, but there is enough WiFi activity in Chicago for interference levels to occasionally degrade the video signal. The 4.9GHz band is licensed specifically for Public Safety use in the United States, and only government-operated systems may use it.

Zucker has been pleased with the robust nature of the Wave Wireless products, "Wave Wireless' routers are secure, highly reliable and are easily managed remotely because of the advanced application software." As of April 2006, RMS has installed approximately 200 SPEEDMesh 9200 routers in Chicago with plans for continued expansion of the network.

Police officials say the cameras have been critical to the city's success in reducing street-based drug dealing that leads to gang violence. During the period January-May of 2003, there were 24 murders in District 11. During the same period in 2005 there were 4, a decline of 83 percent.

The System Integrator:
RMS Technology Solutions

The Challenge:
Mission critical video surveillance over broadband wireless mesh in high crime areas of Chicago, IL.

Solution:
Wave Wireless SPEEDMesh™ 9200 mesh routers - initially on 5.8GHz and now on 4.9GHz - coupled with a sophisticated camera system.

Results:
During the period January-May of 2003, there were 24 murders in Chicago's District 11. During the same period in 2005 there were 4, a decline of 83 percent.



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WAVE WIRELESS

These impressive statistics result from a series of initiatives that include the use of Wave Wireless mesh technology, camera surveillance, street intelligence and community feedback to deploy resources in areas prone to violence.



See Also:

News Flash - Wave Wireless Helps Chicago Police Reduce Crime

<http://www.wavewireless.com/releases.html>

TV Spotlight - Inside Edition video on Chicago PD surveillance

http://www.wavewireless.com/video_text.html

SPEEDMesh 9200 Data Sheet

http://www.wavewireless.com/Library/SPEEDMesh_9200_Data_Sheet.pdf

SuperBowl XXXIX Surveillance System

http://www.wavewireless.com/success_stories/SuperBowl.pdf

Case Studies / Success Stories

http://www.wavewireless.com/Success_Overview.html

Operation Disruption - Crime Reduction Strategy Uses High Visibility Surveillance Cameras

<http://www.rmsbus.com/stories/chicago.pdf>

Smile, You're on Candid Cop Cam!

<http://www.rmsbus.com/stories/trib-2-25-05.pdf>

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