



HAUTESPOT®  
Networks

#1 Wireless Broadband Solution  
for Interoperability and Video Streaming

## Success Brief

### Video Surveillance

WRAPLX-M

WRAPSXC-M

WRAPDXC-M

WRAPSTAL5-16

## High Definition Real-Time Wireless Monitoring Solution

**Project:** Video surveillance and monitoring for Northridge Cooperative Homes community

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**Company:** Applied Video Solutions

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**Goals:**

- Establish safety for their community grounds
- Reduce crime, violence, and illegal drug activity
- Attain coverage of every vehicle entry point
- Enable the capture of vehicle license plates numbers and the occupants inside
- Be able to control the cameras view

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**Challenges:**

- Extreme variances in topography
- No clear line-of-sight
- High RF interference from fishing and transportation communication systems

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**Results:**

- High bandwidth video streaming over wireless links
- Highest performance ratings in the industry and lowest jitter
- Monitoring the system in real-time

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“In the most demanding wireless IP surveillance applications, we rely on Hautespot Networks both for their products and support.”

Dmitri Shimolin  
CEO  
Applied Video Solutions

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Northridge Cooperative Homes is a \$55 million non-profit corporation set up for the purpose of providing affordable ownership housing for its members. Each member is required to purchase a share in the Cooperative, which entitles the member to a proprietary lease on a dwelling unit in the development and participation in the operation of the Cooperative.

After the completion of the Northridge Cooperative Homes (NCH) project, property management were busy keeping maintain the grounds for current and prospective home owners—fielding questions, marketing, and keeping on top of all the issues that arise out of new construction.

What they weren't prepared for were the vandalism and illegal activities occurring on the property after the dust settled. They needed a surveillance system in place and fast. With budgets stretched thin on the new housing development, the video surveillance system NCH needed was being forced into some very tight constraints.

As luck would have it, the U.S. Department of Housing and Urban Development (HUD) announced a total of 20 million dollars in Safe Neighbourhood Grants (SNG) for U.S. Neighbourhoods. These grants were designed to foster community wide solutions to crime, violence and illegal drug activity, and target areas in and around federally subsidized, low-income housing. "HUD is cracking down on crime in assisted housing developments and making it clear that the time when drug dealers could terrorize a community is at an end," HUD assistant secretary Kevin Marchman said. "This grant will begin the process of building a safer community and will go a long way toward ending the crime and violence that all too many residents of publicly assisted housing have to face on a daily basis."

## Goals

The Northridge Cooperative Homes community is located in Bayview-Hunters Point in San Francisco, next to the decommissioned Hunters Point naval shipyard and around some of San Francisco's rougher neighbourhoods. Northridge Cooperative Homes were ecstatic to be one of the recipients of the grants, allowing them to pursue their goal of establishing safer grounds for their community.

That's when they enlisted the expertise of Applied Video Solutions. For nearly 10 years, Applied Video has served the bay area in video and

Applied Video Solutions is a provider of managed security, loss prevention and business intelligence solutions utilizing best in class video and integrated technologies. By understanding our customers' goals and requirements we are able to design, implement and manage solutions that serve the needs of our Client organizations and their respective industries.

Our long-term commitment is focused on providing solutions that protect people, property, assets and drive business improvement like never before through a comprehensive range of services that go hand in hand with systems and technology.



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operational technologies. From their analysis of the project and the client's needs, it was determined that a traditional wired network was not an option, for it would entail tearing up many newly laid concrete and asphalt to run data and power cabling. This was neither acceptable to Applied Video or the client, so their aim was towards wireless.

Having worked with HauteSpot Networks products before, Applied Video knew the capabilities and performance to be attained from HauteSpot and had no hesitation implementing them for this project.

The main goals of NCH's video surveillance were to have coverage of every vehicle entry point into the properties with the ability to capture license plate numbers as well as the occupants inside. This required the utilization of Pan-Tilt-Zoom technology (PTZ), high frame rate, IP cameras, allowing security professionals to control the cameras through the use of a joystick.

## Challenges

What made the project especially difficult were the extreme variances in topography. Many mature trees dotted the landscape, making it difficult to establish clear line-of-sight for the wireless shots, and owing to the proximity of the bay, fishing and transportation vessels generated high RF interference from their radar and communication systems.

These challenges were met and overcome due to the combination of Applied Video's experience and the performance of HauteSpot Networks product. The versatility of the outdoor rated WRAP units allowed for tricky antenna alignments and restrictive mounting scenarios to be achieved. HauteSpot's "TLP" —TDMA like Protocol, allows the systems to achieve high bandwidth video streaming over wireless links with the highest performance ratings and lowest jitter in the industry. Where other products fall short of their claims, HauteSpot delivers with unparalleled performance. "Our longest wireless hop was squeezing a total of 96Mbps full-duplex," said Bryan. "That's 50Mbps sending and 50Mbps receiving simultaneously!" This comment pertaining to their most complex wireless link in the project, was shooting through thin gaps in mature trees and across the entire development.

## Results

"And when we go to turn over the new system to the client, we have HauteSpot's monitoring tools to show the client exactly what they are getting."

HauteSpot's monitoring tools come with every wireless system and allows the integrator and end user to monitor the entire wireless network. All the way from

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Bryan Whittington  
Project Manager  
Applied Video Solutions

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the head-end to the IP cameras at the edges, users can see in real-time the status of the links, the strength of the signals and create custom notifications that can be sent directly to your handheld device should any link or camera go down. "The monitoring tool is fantastic! Being able to setup notifications and monitor the system in real-time differentiates this product from all others and allows me to provide the best customer service to my clients. You simply will not get that from other companies."

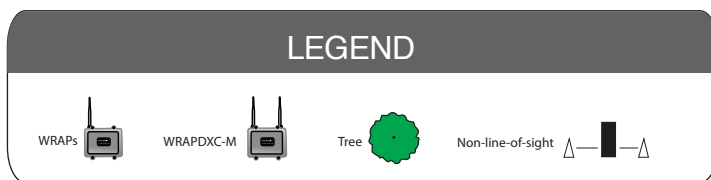
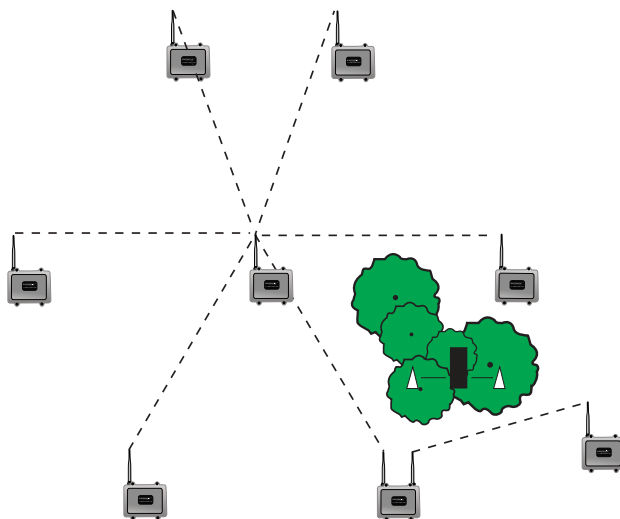
The project was a success with the integrator, Applied Video Solutions and client, NCH coming away with positive results. "When we go to do wireless projects, we use HauteSpot products. Because it actually works."

"The monitoring tool is fantastic! Being able to setup notifications and monitor the system in realtime differentiates this product from all others and allows me to provide the best customer service to my clients. You simply will not get that from other companies."

Dmitry Komarov  
Systems Support Engineer  
Applied Video Solutions

"And when we go to turn over the new system to the client, we have HauteSpot's monitoring tools to show the client exactly what they are getting."

Simon Elliot  
VP Sales & Marketing  
Applied Video Solutions



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