



WIRELESS MESH NETWORKS CASE STUDY **Lakewood Center**

Aruba wireless mesh network supports video surveillance system at Lakewood Center mall

Management officials at Lakewood Center mall, a Macerich retail property in Southern California, needed video surveillance coverage in parking lots around a handful of restaurants and stores and link the video stream to its centrally-located surveillance center.

This would not ordinarily pose a challenge, but these stores and restaurants happened to be located across a busy street from the mall. Trenching was not an option due to municipal regulations.

Additionally, Lakewood Center officials wanted to avoid the enormous cost and inconvenience associated with digging up streets, sidewalks and running fiber. Instead, they sought a cost-effective, reliable solution that would not disrupt tenant business.

The Solution

Aruba Networks provided Lakewood Center with a wireless mesh network design that provided HD-quality video coverage for the stores, restaurants and parking areas. The design utilizes 13 video cameras linked by 10 Aruba wireless mesh routers.

The surveillance system At Lakewood Center covers approximately five city blocks and leverages Aruba's Active Video Transport™ (AVT™) technology, which ensures clear, jitter-free video with minimal frame loss.

The Aruba wireless mesh network efficiently routes video traffic from each camera to the mall's surveillance center, ensuring that video quality and reliability are never compromised.



Challenges

- Needed outdoor video surveillance to provide security for stores, restaurants and parking areas across a busy street
- Live video stream must link to the mall security surveillance center
- Could not dig or trench to run cabling; the cost to dig could easily have reached in the hundreds of thousands of dollars
- Required a reliable and scalable wireless solution that could deliver broadcast-quality video
- The wireless solution would have to overcome many challenges, including high rates of interference in area as well as an abundance of buildings and trees



● Router
 ● Camera
 - - - - Wireless Backhaul
 Wireless Access

The Aruba wireless mesh network covers a number of mall tenants across a busy street with the video surveillance center at the Lakewood mall.



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Lakewood Center Overview

Founded in 1951, Lakewood Center is located on 130 acres just 10 miles southeast of Los Angeles, adjacent to the coastal city of Long Beach and minutes from Orange County.

The mall is home to several major retailers, including Macy's, JC Penney, Costco, Target, Best Buy and the Home Depot, as well as 265 specialty shops. It also has two cineplexes with a total of 25 screens and more than 30 restaurants.

Lakewood Center is owned by Macerich, one of the country's leading operators and developers of major retail properties. Macerich currently has a total gross leasable area of 74 million square feet in 71 regional malls.

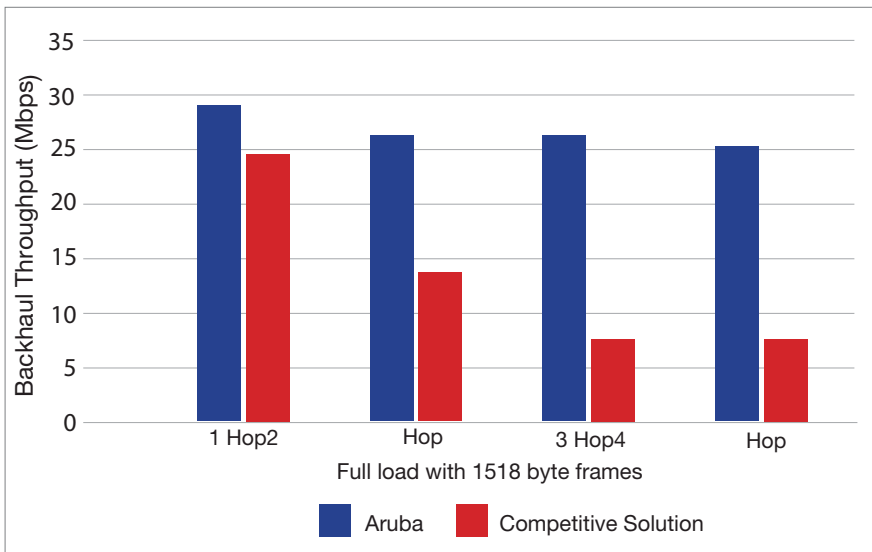
Aruba Video Surveillance

Aruba wireless mesh networks provide video surveillance superior to any other wireless solution. The company's AVT technology delivers the best available video quality for surveillance cameras, monitors and recording systems.

Additional advantages of the Aruba wireless mesh solution include support for long-range directional links, secure and seamless roaming for mobile cameras and monitors, traffic prioritization and quality of service (QoS)

to accommodate additional applications, and superb scalability and load-balancing provided by Aruba's Adaptive Wireless Routing™ (AWR™) technology.

AWR ensures that video, voice and data traffic follow the most efficient path across the Aruba wireless mesh network. Using robust Layer 3 routing with multiradio and multifrequency capabilities, AWR delivers ultra-high capacity up to 70 Mbps over multiple hops.



Competitive solution Data Source: www.unstrung.com, Doc ID 97244
Aruba Data Source: Internal testing, Aruba Operating System, Version 2.5

“Aruba supported our team throughout the entire process, helping us streamline the project and make every step as efficient as possible.”

Michael Mercado
Electronic Times
(Integrator for the Lakewood Center Mall project)



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