



Anywhere

**SUCCESS
STORY**



Singapore

Geylang Bazaar

**Network Camera Solution
for Safe Event**

Overview

Event security is complex and challenging. Venue surveillance, traffic control and crowd management are among the various aspects of ensuring a safe experience for visitors and at the same time improving the operational efficiency for the organizer.

Singapore is a multi-racial country and consists of a large Malay population of over 13%. Hari Raya is an important celebration for the local Muslim community. A yearly bazaar is held for a month as the heart of celebrations with stalls offering a wide variety of Malay and Middle Eastern products ranging from clothes to food. With the flocking crowd visiting every night, a reliable surveillance system is essential for efficient event management.

With Anywhere Networks' patented Intelligent Connectivity Anywhere ® technology, the Geylang Serai Bazaar Organizer achieves a rapid deployment of the robust and flexible surveillance system within a day. Not only are network cameras installed at the exact locations required, Anywhere Networks' Intelligent Connectivity Anywhere supports quick and smooth camera response throughout the system.

Customer

Geylang Serai Bazaar Organizer

Deployment Location

Geylang, Singapore

Application

Safe Event—ad-hoc system for wireless mesh video surveillance

Product Deployed

Anywhere Network Node
X20 Series

Competition

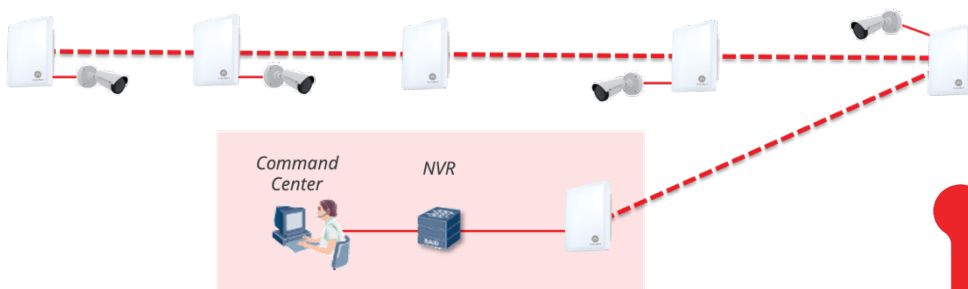
TV White Space Radio Supplier

The Challenge

- Harsh operating environment—big crowd of visitors, heavy movement of traffic, and high electro-magnetic interference from the bazaar stalls and power generators
- Higher bandwidth to transmit HD surveillance feeds
- Live streaming with no video lagging
- Quick camera response to Pan-tilt-zoom (PTZ) action at the command center to fulfil the key measurement criteria of police operations
- High-quality camera images for video analysis
- Quick deployment with minimum calibration to meet tight timeframe



"Despite the harsh operating environment, P2's MeshRanger delivers impressive throughput and stability. There's no down time for over a month. The radio is stable under heavy movement of crowd. The equipment can also withstand the heavy rain and hot weather!"



The Solution

- A 5-hop wireless mesh network is built along a 1-km-road
- Daisy chain topology is used to connect the cameras at each node back to the command center
- PTZ HD cameras are used for flexible view at 360 degree
- Temporary pole mounting at road side for easy setup and dismantling after the event
- Proprietary Mesh ID and Mesh key authentication supports easy setup yet highly secured network

The Benefit

- All HD video received at last hop were stable and seamless
- All PTZ cameras react instantly when pan, tilt and zoom
- Much better performance over using typical wireless network for transmission e.g. 4G

Anywhere Networks

Anywhere Networks is a leading Wireless Mesh Technology company offering scalable, high-capacity and secure network solutions and services for Smart and Safer City Applications with a focus on public safety, Internet of Things (IoT) connectivity, video surveillance, transportation networks and industrial environments for provinces, governments, industrial and enterprises. **Anywhere Network Node A-NN** is our flagship product line of ultra-high performance industrial-grade wireless products, its full mesh capabilities designed for flexible and expandable deployments regardless of physical constraints. The entire network is managed by **Anywhere Node Manager A-NM**, a Provisioning and Centralised Network Management Software and Platform of all-in-one dashboard for configuring, monitoring, and managing AN network and devices.