

Singapore Geylang Bazaar Smart Virtual Fiber[®] and Network Camera Solution for Safe Event



Anywhere

INTELLIGENT CONNECTIVITY



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

Products Deployed

X20 MeshRanger

Competition

TV white space radio supplier

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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
- Require 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

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 Intelligent Connectivity Anywhere connection

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

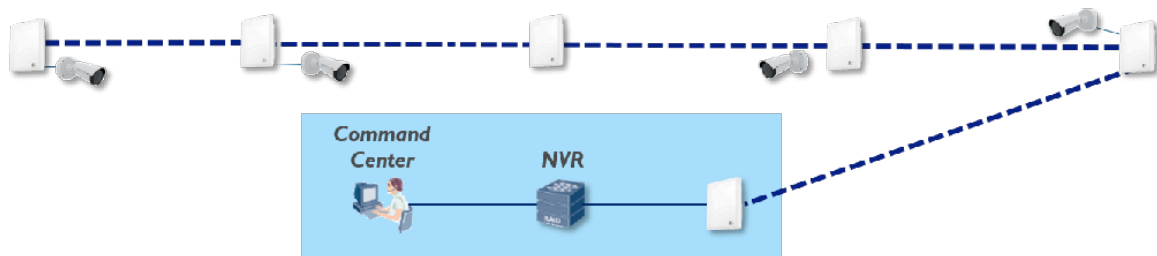
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Despite the harsh operating environment, P2's MeshRanger delivers impressive throughput and stability. There's no down time for over a month. The radio is stable under heavy movement of crowd. The equipment can also withstand the heavy rain and hot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

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The surveillance system monitors the busy crowds visiting the stalls night and day.



Overview of the deployment architecture

About Anywhere Networks

Anywhere Networks develops and globally markets network infrastructure solutions and services for Smart City applications with focus on public safety, intelligently connecting IoT devices and video surveillance cameras for public and private customers. Anywhere Operating Systems, A-OS, and Anywhere Network Nodes, A-NN, offer scalable, high-capacity, secure network solutions based on Anywhere's Intelligent Networking Technology for bandwidth-demanding applications and mission critical network infrastructure. Anywhere Networks solutions and services are well suited for public safety and video surveillance applications for Smart Cities, Safe Cities, Transportation Networks, and Industrial Environments.



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