



Anywhere

SUCCESS STORY

Maribyrnong City Council

Smart City Wireless Infrastructure Upgrade
Safe City Surveillance



Overview

The **City of Maribyrnong** is a western suburb within the metropolitan area of Melbourne, Australia. Looking to make the city a safer place for its community, the Maribyrnong City Council wanted to upgrade their aging video surveillance system with the latest video network cameras that would require high performance connectivity in order to get high definition images to their command centre.

Due to the complexity of the architecture of the existing wireless system, it was difficult to find a compatible replacement system to complement the city's existing wired security system until Centec Security Group, a highly regarded Security System Integrator recommended using Anywhere Networks' X20 series wireless node to the council.

Anywhere Networks' Wireless Mesh Technology encompasses the latest wireless standard to support the vigorous bandwidth needs for HD and 4K network cameras. Despite installing X20 MeshRanger for the first time, Centec only needed minimal training to configure and install the X20 A-NN devices as they are designed to be intuitive and System-Integrator-friendly for easy and faster deployments. With Anywhere Networks' Connectivity Solution, Centec was able to quickly and economically upgrade the council's old outdoor surveillance wireless infrastructure. The system is also designed for easy scalability and continued expansion for further Smart City applications.

Customer

Maribyrnong City Council



Partners

Centec Security Group



Deployment Location

Footscray, Melbourne, Australia

Application

Safe City
Wireless Mesh Video
Surveillance

Product Deployed

Anywhere Network Node
X20 Series

The Challenge

Maribyrnong City Council has been using a wireless surveillance system since 2011, but the system becomes dated and is no longer performing well to current video quality standards. With the rapid advancement of surveillance cameras, the city council wishes to upgrade the system with high-definition cameras for better visibility. However, this higher network capacity required for the video transmission will exceed the limit of the existing wireless system. The use of PTZ cameras also requires a low-latency network for precise and high-speed pan/tilt and zoom control. It is difficult to look for an alternatives as the existing system is using technology that is not easily replaceable by the current common wireless technology that utilizes point-to-point and point-to-multipoint technology.

The Solution

In order to satisfy the requirement to transmit high quality of video and to avoid the non-line-of-sight problem, the X20 A-NN is used to form multiple hops MESH network to support 80 high-definition cameras, with 10% of them being bandwidth-demanding and latency-prone PTZ cameras. Thanks to the Anywhere Networks' wireless high performance hardware and capability of building dual-ring MESH network, the 25-nodes dual-ring wireless network deployed can provide consistent high-throughput connectivity covering every corner in the city and with ease-of-expansion when needed in future.



The Benefit

A new wireless network is able to setup quickly in days because of the simple radio planning. Only minimal training is required for first-time wireless system installers because of the intuitive and user-friendly product design. Not only does the abundant network capacity allows stable and reliable transmissions of the high-definition video surveillance feeds, the network is also a resilient and future-proof system with auto-recovery and spare network capacity for more cameras in the future.

"P2 (the former name) Wireless X20 is so **easy to configure** that our installation team can get it **up and running instantly**. The minimal civil works **save a lot of time** and **simplify the project** a lot, compared with the conventional wiring options"



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 with full mesh capabilities designed for flexible and expandable deployments regardless of physical constraints. The entire network is managed by **Anywhere Network Manager A-NM**, a Provisioning and Centralized Network Management Software and Platform of all-in-one dashboard for configuring, monitoring, and managing AN network and devices.