



WIRELESS CCTV SURVEILLANCE



A use case on Mimosa wireless backhaul infrastructure for CCTV surveillance application for Penang Port, Malaysia.





OBJECTIVES:

Fulfilling their surveillance and security initiatives, Penang Port wireless CCTV surveillance solutions are designed based on the following objectives:

- The new CCTV surveillance system network at Penang Port must be robust and foolproof with redundancy backup without single point of failure
- Connecting surveillance cameras across sea waters without cables both at Penang Island and Seberang Perai mainland
- Using high capacity Gigabit wireless backhaul to cater for existing cameras and future expansion
- The infrastructure must be able to support state-of-the-art surveillance cameras with facial recognition and other crucial surveillance applications





THE SOLUTION

With such a large number of surveillance cameras' requirements yet having limited locations to lay cables, the fast and practical approach to solve this is using total wireless network infrastructure. A combination of different Mimosa radios were being deployed:

- Mimosa high-capacity wireless solution eliminates the need to lay physical fibre optic cables. The high-capacity wireless radios provide up to 1.5Gbps Point to Multipoint wireless network as well as Point to point backhaul on the 5GHz unlicensed band spectrum.
- To eliminate radio spectrum congestion, Mimosa B24, a 24GHz license free point to point backhaul radios
 that provides up to 1.5Gbps capacity were deployed as main backhaul. 24GHz channel is less congested
 allowing full utilization of the spectrum effectively.
- C5x CPE radios were deployed giving up to 600Mbps capacity to each camera. This flexible and cost
 effective radios allow quality images that require high bandwidth to be transmitted without dropping the
 performance





THE RESULT



mimosa

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