

Networks and Infrastructure

Hamilton Based Vehicle Accessories Company

This client had been in discussion with their third-party application vendor to implement a handheld scanner solution that required real time connectivity to a database. Supportnet was asked to review the proposal, Supportnet identified that while the proposed Wi-Fi hardware would provide a good internet connection, was not the best product for “transparent handover” when a Wi-Fi handheld scanner moved between Access Points. Supportnet needed to ensure the proposed solution would meet all the expected outcomes.

Key areas: Transparent handover, granular signal strength control, cloud controller, enterprise features (Active Directory), robust and durable design.

Environment:

Warehousing with high steel racking with various products included laminated glass products as these can affect Wi-Fi signal strength, stacked on pallets up to 7 meters high.

The Wi-Fi solution must meet all the requirements and have the capability to provide a robust connection the network with a solid Wi-Fi signal capable of penetrating different materials.

Supportnet proposed Aerohive AP230 Access Points, configured “transparent handover” and signal strength to deal with concrete, steel and glass. Aerohive Wi-Fi AP’s were connected to new Allied Telesis POE switches. Supportnet’s solution provided a solid infrastructure for the handheld scanners to update database stock in “realtime”.

Te Kuiti Meat Processors

TK Meats Fibre connectivity between admin and plant with Allied Telesis managed switches, robust with PLC and critical systems with Wi-Fi barcoding

Te Kuiti Meat Processors has had network performance issues when the plant in full production in during their peak season.

Server hardware was due for replacement too, we reviewed the network infrastructure and identified “network bottle necks” which would be symptomatic that critical applications appear to “freeze” due to network latency.

Supportnet recommended a fibre backbone upgrade between the Admin office block and processing plant, connected to upgraded Allied Telesis Gigabit switches. The upgraded core network infrastructure has not experienced any further network latency or performance degradation issues.