

Creating a cutting-edge network for four-story Australian building

Retrofit project restores building in Canberra to perfect condition



When Delta Building Automation (Australia) won the BMS Upgrade at 25 National Circuit for the Australian Trucking Association, they partnered with Optigo Networks to create a secure and robust Building Services Network (BSN). Optigo Connect™, a suite of smart building hardware and software products for OT networks, more than delivered on this project with a scalable solution that restored the building network to perfection.

Key statistics

- Canberra, Australia
- 77,000 sq. ft.
- Four stories
- PoE HVAC system
- Approximately 200 devices
- Ring redundancy topology

Background

25 National Circuit is a mid-rise enterprise, with four stories spanning more than 70,000 square feet. The customer wanted to improve their sustainability and energy efficiency, without a long, drawn-out, and expensive renovation. Delta Building Automation elected to use a Power-over-Ethernet (PoE) design, which would simplify the network system and reduce disruption to the clients. The PoE-enabled devices also would not need to be separately powered, drastically cutting the cost of power supplies and cabling.

Challenges

Retrofit projects can pose particular challenges. Working with the existing infrastructure requires finesse and a thoughtful design. Downtime is unacceptable, and disruption must be kept to a minimum. In this project, the PoE network also had to be suited to facility managers: quick and easy to implement, without a steep learning curve. Optigo Connect's solution not only met, but exceeded expectations with absolute simplicity and exemplary condition.

"We partner with outstanding solutions providers to wow our customers with forward-thinking innovations. Optigo Connect's Power-over-Ethernet design was integral to this upgrade at 25 National Circuit. The network is now flexible and strong, able to support a multitude of systems with ease and performing better than ever."

– Hendra Nugraha, National Engineering Manager, Delta Building Automation (Australia)

Solution

Optigo Connect provided eight 24-port networking switches, which integrated seamlessly with the approximately 200 PoE VAV controllers. Optigo's powerful, highly adaptive platform even left room for expansion, with the recent additions of on-demand CCTV and an Automatic License Plate Recognition system. Installation of the ports was fast and simple, mitigating downtime and disruption. Optigo Connect's centralized network management software, OneView, provided status of all the ports across the property on an intuitive graphical interface. This was crucial throughout the installation phase and beyond, as it allowed Delta Building Automation to control the entire system at the micro-level, with critical visibility across the building services network. Optigo Networks' robust retrofit upgrade has 25 National Circuit running better than new.