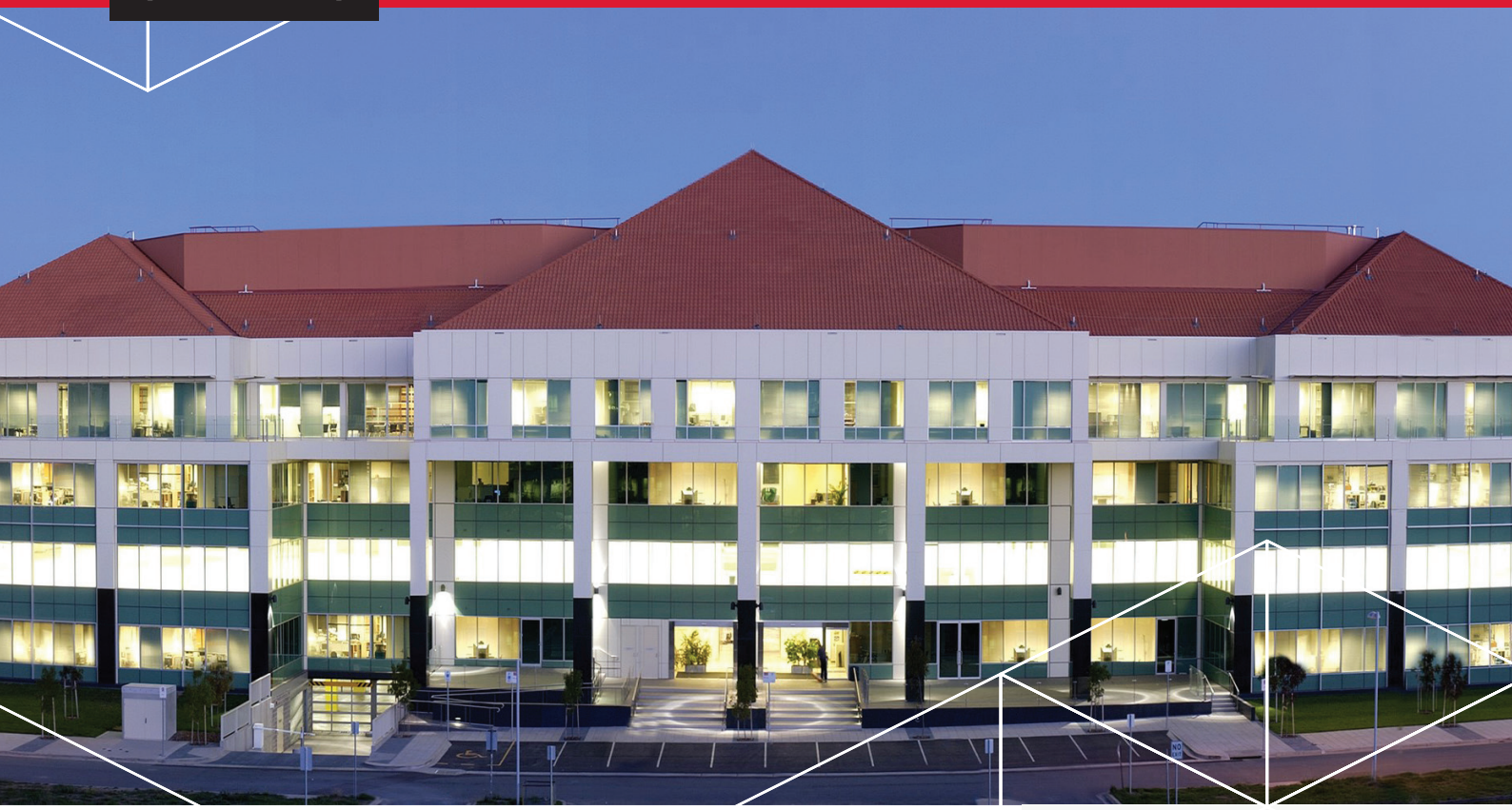
[CASE STUDY]



25 NATIONAL CIRCUIT

In 2016, Delta Building Automation began the installation of one of Australia's first and largest Power over Ethernet (PoE) Building Management Systems (BMS).

WHAT'S SIGNIFICANT ABOUT PoE?

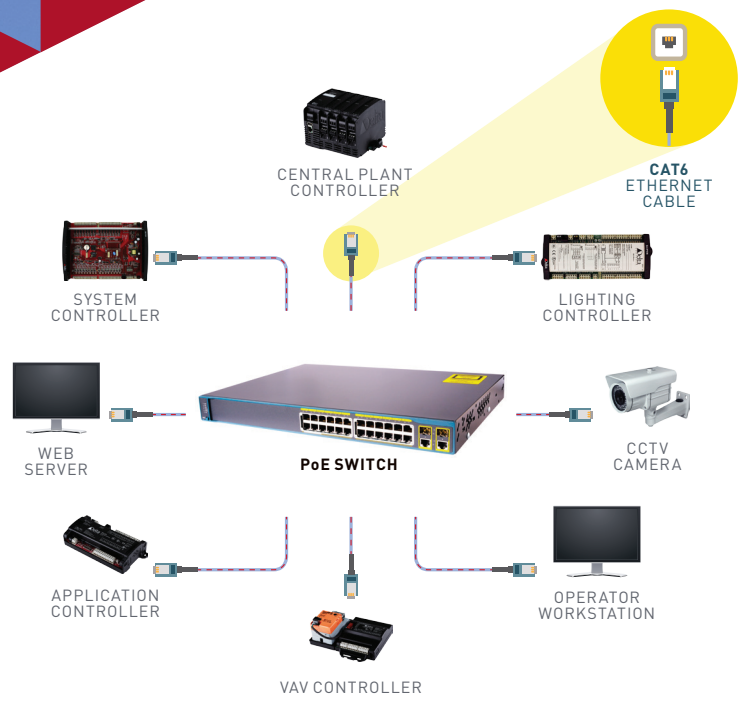
As technology advances, more options and benefits become available to end-users. The installation of a PoE system in 25 National Circuit has enabled the building manager to integrate their state-of-the-art BMS system, enteliWEB, with the building's compatible lighting systems.

We are seeing a revolution in smart devices. The PoE system helps future-proof the building by allowing other systems, as they become smart, to easily integrate with enteliWEB. This seamless integration allows the building owner/manager to use Delta's BMS to further analyse, predict and reduce their building's energy usage. It's a win-win situation that will literally save tens-of-thousands of dollars worth of technological headaches in the future.

"Our PoE solution consolidates operational technology with fibre networks. This is the future of Building Automation, it will ensure that Buildings are future-proofed and ready for the Internet of Things (IoT)."

TIM DAVIS
DIRECTOR
Delta Building Automation

Delta
BUILDING AUTOMATION



ABOVE: How PoE works—Power is carried from the switch, inside the Ethernet cable, to connected smart equipment. It makes separate power cables unnecessary.

FURTHER BENEFITS OF PoE

Simplifying how power is connected to devices is one of the benefits of using PoE technology. Carrying the power along the Ethernet cable allows us to do away with separate power infrastructures — making the distribution of power to hard-to-reach spaces much easier.

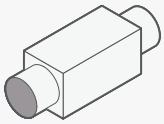
This means that the installation process is faster and simpler and the cost, per Ethernet port, is substantially reduced due to less time demands on electrical technicians.

PoE controllers can also be installed, one-by-one during work hours, without having to take the entire BMS system offline — minimising interruptions to building tenants.

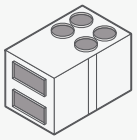
The use of Direct Current (DC) over PoE is useful when powering electronic equipment too, as it ensures that the voltage supplied is at a constant unidirectional level. When powering electronics, constant voltage over time ensures that you don't get energy spikes that fry expensive equipment.

EQUIPMENT MAINTAINED ON-SITE

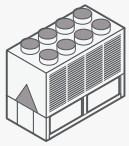
NLA 55,000m²



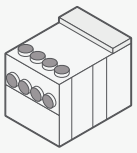
223 VAVs



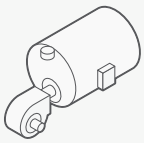
10 PACs



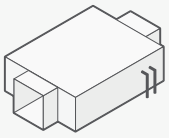
7 chillers



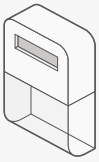
71 AHUs



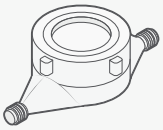
6 boilers



13 FCUs

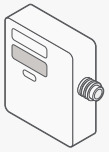


600 electrical meters



97 water meters

25 gas meters



36 thermal meters

OTHER MAINTAINED EQUIPMENT

2x tri-generation plants consisting of
2x absorption chillers, 2x gas-powered gensets,
2x diesel-powered gensets

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