

GOVERNMENT BUILDING PERFORMANCE TRANSFORMS WITH T1L ETHERNET

Upgrading a decades-old building automation system with Honeywell Optimizer Unitary Controllers using T1L Ethernet enables a large government organization to increase operational performance on a limited budget

Case Study

“The ability to reuse the existing network and the speed and ease of which the controllers program got us on and off the job faster than traditional upgrades reduced our project cost in line with the client’s budget. Honeywell’s new controllers powered by T1L technology will be highly competitive in the controls market for years to come.”

BRANDON REIGELSPERGER
Service/Controls Technician
Applied Mechanical Systems

Honeywell

MAXIMUM PERFORMANCE ON A MINIMAL BUDGET

When a government organization's building automation system reached end of life, A Honeywell Controls Integrator, Applied Mechanical Systems was enlisted to help. Given a limited budget, they upgraded the system with Honeywell Optimizer Unitary Controllers using T1L Ethernet to boost existing wiring from telephone data speeds to full Internet Protocol (IP) speeds – for modern capabilities at low cost.

THE CHALLENGE

- Replace a building automation system nearing obsolescence with a modern solution fit for the future
- Meet new requirements for energy management, cybersecurity, air quality, and employee comfort
- Minimize project-related disruption to employees
- Achieve results on a limited budget

THE SOLUTION

For two decades, a large, Ohio-based government organization used a building automation system to control the temperature of its four-story office, the hub of a wider campus.

But with the system's underlying Niagara AX™ protocol and LON field controllers approaching end of life, the organization brought in Applied Mechanical Systems, the Honeywell contractor that originally implemented the system, to help.

In the 20 years since the system was installed, the organization's requirements had changed substantially: a smart, modern system that could deliver better energy management, air quality and cybersecurity improvements.

However, there were also constraints to consider, including a limited budget and the need to minimize disruption to staff working on site.

Because these parameters ruled out a full rip-and-replace, Applied Mechanical Systems suggested replacing the legacy controllers with Honeywell Optimizer Unitary Controllers enabling T1L Ethernet based on the BACnet IP communications protocol.

Taking this approach has upgraded system communications to modern IP speeds over existing twisted-pair wiring, limiting disruption and achieving the project goals.

Impressed with the results, the government organization now plans to deploy Honeywell Optimizer Unitary Controllers with T1L Ethernet across its entire campus.

Find out what your building can achieve with Honeywell Optimizer Unitary Controllers and T1L Ethernet.

hwll.co/optimizersuite

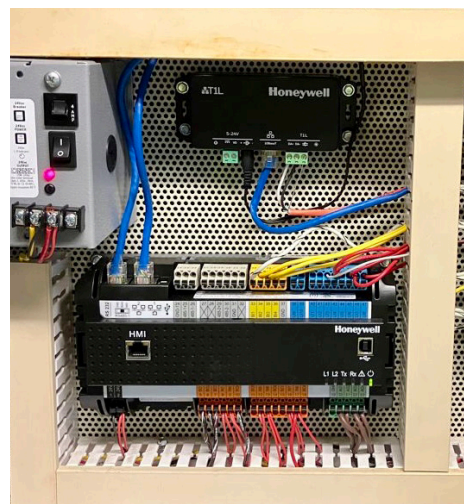
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THE BENEFITS

- Increases system communications speed from 78Kbps to 10Mbps, transforming temperature control capabilities and interior comfort.
- Meets new requirements for energy management, cybersecurity, and air quality.
- Delivered solution on time and at a 20% savings compared with the cost of ripping out and replacing the legacy system.

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