



Lyell McEwin Hospital

Adelaide, Australia

The Lyell McEwin Hospital in Adelaide, Australia, has been continually enlarged and expanded since opening in 1959.



New wards and operating theaters were added in the 1980s, and today it is undergoing the final phase of a major \$85 million redevelopment project to create new departments including an intensive care unit, birthing suite and medical imaging facilities. TAC Pacific is providing the technical expertise to reduce construction and building management costs.

The Lyell McEwin Hospital is an important cornerstone of Australia's national health service. It provides the citizens of Adelaide with 24-hour medical care and a full range of medical services supported by specialist staff and a resident nursing team.

TAC Pacific has had an onsite presence at the hospital for the past eight years, providing expert advice and supervising system network subcontractors. When the current redevelopment project ends, the hospital will possess one of the most intelligent buildings in the country – a building with significantly reduced operating costs and better security.

Customer Benefits

- Better security in a comfortable environment
- Hospital staff have 24/7 access to building and critical systems information
- Lower construction and building management costs
- Reduced operating costs
- Five-year ROI with systems maintenance management

Healthcare

The Challenge

An advanced Building IT management system was needed that could integrate a wide range of complex monitoring subsystems and critical services such as fire and mechanical control; access control and security intruder detection; wandering patient alarm system; intercoms and CCTV; and high level interfacing for chillers, diesel generators, power meters, fire panel and specimen handling system. To reduce high cabling costs for multiple networks, TAC proposed a single integrated cable backbone.

The Solution

TAC's Building IT solution is an industry first in Australia – and quite possibly the world. It offers total integration with voice, data, video and control systems all residing on a common structured cabling system. The cable backbone offers higher bandwidth to guarantee stable and secure transmission of data.



This type of Building IT solution reduces overall construction and daily operational costs as well as the extra costs for retrofits and later modifications. With the new system in place, hospital engineers and nursing staff will have direct access to all building and critical services from any designated network computer.

Healthcare Profile

Healthcare facilities operate 24/7 and require 24/7 system reliability and precision. Environmental conditions must adjust quickly and uniformly to the needs of each patient. Particular areas, such as surgery suites and laboratories, must maintain specific temperature, air filtration and ventilation requirements.

Managing energy usage without compromising life critical environmental needs is a huge challenge faced by maintenance and engineering personnel. For both patients and staff, TAC's open systems solutions mean a total quality healthcare environment and efficient facility operation.

The Bottom Line

The level of building automation and integration complies with current best practices for the operational requirements of the hospital and offers future expansion capabilities. It is estimated that Lyell McEwin Hospital will recover the cost of its system within five years, principally through system maintenance management and solid energy management principles.

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