

## Case Study

Rittal Australia / Nilsen (SA)



# Rittal and Nilsen (SA) cater for new RAH's seismic proportions!



South Australia's new Royal Adelaide Hospital (new RAH) will provide world class health care and facilities for South Australians. The \$1.85 billion project, which is in the final stages of construction and scheduled to open in 2017, will upon completion be the largest infrastructure project in the history of South Australia and one of the most technologically advanced hospitals in the Southern Hemisphere.



The hospital's 13 hectare site encompasses the 245,000m<sup>2</sup> hospital building which will incorporate all hospital facilities, including 800 beds, 40 technical suites and a commercial precinct.

The state of the art hospital features advanced Information & Communications Technology (ICT) that will integrate systems across the hospital, including those that support the facility management.

It will also be the state's greenest hospital and incorporates extensive environmentally sustainable design initiatives.



Delivering the State's first Tier 1 Hospital, which is required to meet strict post disaster requirements, the design of the ICT systems had to ensure that the facility remains fully functional and operational in 'island mode' after a severe earthquake or other natural disaster.



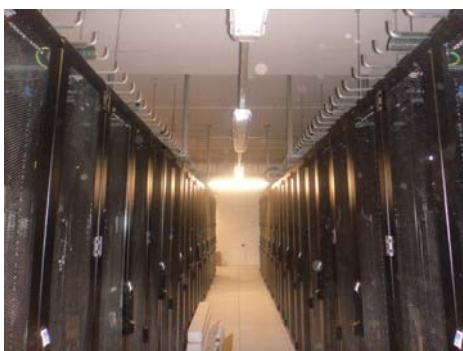
ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



Rittal Enclosures were chosen over other major manufacturers as a result of their local representation, product offering and quality and a commitment to meet the project requirements. With the requirement to source up to 400 enclosures to house the ICT equipment, Rittal were challenged to meet all the design parameters and deliver to the projects strict timelines.

Unlike traditional vendors, that on most occasions, just supply a standard product, Rittal engaged with Nilsen (SA) to understand the projects specific requirements and then undertook to design a solution accordingly, this included manufacture of specific rack sizes to meet the end user's needs. Rittal went through extensive consultation with both Nilsen (SA) and the project's consulting engineer, offering its engineering and manufacturing expertise to design a solution fit for the project.

Rittal utilised its extensive global manufacturing footprint to source products from factories in Germany, America and China with final late point definition and integration work performed in its Sydney head office Mod Centre facility to deliver the end solution on this project.

Rittal's solution for the data centre and networking enclosure requirements included its flagship TS-IT enclosures, fitted with earthing, cable management and seismic bracing kits. The TS-IT enclosure complies with Australian standards AS60068.3.3 and AS1170, making it suitable for seismic applications. The enclosures were also fitted with intelligent power distribution rails that monitor and measure the energy being consumed within each rack. Rittal also supplied wall mount enclosures and enclosures specifically designed to provide air flow management for the high density Cisco switching equipment.

Overall, Rittal's Enclosures are deployed throughout the 10 storey facility across 2 x Data Equipment Rooms, 2 x Telecommunications Equipment Rooms and 62 Floor Distribution rooms, housing the Hospitals Active Equipment, Fibre and Class FA Copper cabling infrastructure along with other critical ICT Infrastructure components.