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Market segment  
**Recreation**

Location  
**Canberra, Australian Capital Territory, Australia**

Total area  
**3,800 m<sup>2</sup> (40,903 ft<sup>2</sup>)**

Project type  
**New construction**

Protocol  
**BACnet, SMTP**

Installation type  
**HVAC**

# Raiders Centre of Excellence

Project Profile

The [Raiders Centre of Excellence](#) is a state-of-the-art training and administration facility for the Canberra Raiders Rugby League club. Funded by the governments of New South Wales and the Australian Capital Territory, the facility includes two 2-story boxes, one with a gym, coaching support, and field access and the other dedicated to recovery spaces and administration. The center also has a filming studio and theater.



Authorized Dealer [IES Automation](#) installed a Reliable Controls building automation system during construction of the Raiders Centre of Excellence to provide HVAC equipment control and energy monitoring. The new system includes 26 MACH-Pro controllers that communicate over BACnet Ethernet and MS/TP with the facility's chillers and variable speed drives.

Total system objects  
211

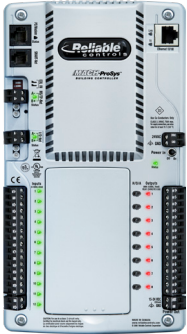
#### Installed equipment



6 MACH-ProAir™ controllers



1 MACH-ProCom™ controller



1 MACH-ProSys™ controller



1 MACH-ProWebSys™ controller



17 MACH-ProZone™ controllers

#### Installed software



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A key element for IES Automation was programming air-to-air heat exchangers to provide comfortable conditions year round using only electricity in one of the coldest regions of Australia. The new fully electric building mechanical systems align with the Australian Capital Territory's targets for net-zero emissions.

IES Automation implemented MACH-ProCom and MACH-ProSys BACnet Building Controllers with extensive networking capabilities and scalable inputs and output to control large mechanical equipment. A MACH-ProWebSys controller, a unique combination BACnet Building Controller, BACnet Operator Workstation, and powerful web server, allows building operators to conveniently access and control mechanical equipment over the internet.

For variable air volume control, IES Automation installed six MACH-ProAir controllers, each with an airflow sensor and onboard damper motor, eliminating the need for separate sensors and actuators. Seventeen fully programmable MACH-ProZone controllers, ideal for controlling midsize rooftop and heat-pump applications and small mechanical room equipment, provide highly scalable inputs and outputs in a compact package.

RC-Archive software empowers building owners with a robust record of building performance by delivering continuous downloads of data logs to a SQL database. RC-Reporter software extracts intelligence from that data with analytics that help facility managers improve operational efficiency. IES Automation programmed an energy-saving chilled-water-temperature reset sequence as part of the system commissioning.

