



The flexible and future-proof design of Cardax FT provides extensive system expansion and integration options for La Trobe University.

La Trobe University is an internationally recognised leader in the provision of high quality education and training underpinned by a strong research focus.

"The Cardax system is rapidly developing into an outstanding product. Believe me, I have worked with many access control systems and this is the best I have seen."



The main campus of La Trobe University in Melbourne (Bundoora) is situated in spacious parkland and includes a Wildlife Reserve. This metropolitan campus also houses the main research and teaching facilities of the University, including the Research and Development Park, a world renowned library, multi-media facilities and a hospital including student medical services.

The University covers a vast 330 hectares and incorporates 60 buildings across several campuses in regional Victoria - in Bendigo, Albury-Wodonga, Shepparton, Mildura and Beechworth.

La Trobe University has a particularly strong commitment to international students and collaboration with other education institutions. It leads the International Network of Universities which is a consortium of universities specifically designed to promote student mobility. Currently the University has links

with some 250 institutions in more than 40 countries.

This University prides itself on forward thinking to accommodate the needs of staff and students now and in the future – security considerations are no exception. Security on site is comprised of guards, an extensive CCTV camera system and a Cardax access control with integrated intruder alarms system upon which they rely heavily. The Cardax system was installed in 1998 and originally controlled 6 doors in the Eastern lecture theatre. Since then Cardax has been installed throughout many of the University's buildings and campuses and a steady technology migration to the latest Cardax FT platform has taken place.

Wayne Aldous, Security Manager - Building and Grounds Division, Security and Traffic Unit - has weighed up the leading access control systems on the market and is confident in their choice.

"With ongoing software releases and system enhancements the Cardax system is getting better all the time. Believe me, it beats everything out there," he states.

The Cardax system now protects a wide range of facilities including the Physical and Health Sciences precincts, Law and Management buildings, Administration, Computer science labs, and Student Accommodation. Cardax FT provides a full audit trail of events for reference in the event of criminal activity and OH&S matters.

"We find the reports powerful and look forward to future developments in this area," Wayne comments. La Trobe University creates reports from Cardax FT and includes these, plus time stamped video footage as part of incident reports for police as required.

Currently the University has 20 operators with workstation licenses – these

# The flexibility and scalability of Cardax FT are well suited to the fluid university environment.

control systems in the past and it beats everything out there," states Wayne Aldous, Security Manager.



Wayne Aldous, Security Manager  
La Trobe University

operators manage day to day cardholder access requirements in their respected departments. The Computer Sciences and Library for instance, manage access control of their own areas independently. The introduction of Version 5 of Cardax FT has provided La Trobe University staff with significant flexibility and independence in terms of cardholder management and access control. Different areas of the university, for example student accommodation, can independently manage access outside their relevant divisions based on the cardholder's needs.

"One of the most beneficial features regarding Cardax FT is the access group time and date expiry – Brilliant! It means that access can be granted and denied to specific areas in advance of when it is required. We can check whether the access status of students to different areas is enabled, pending, or expired. The ability to provide temporary access means staff don't have to manage access requirements

in real time. It's proving very useful," Wayne comments.

La Trobe University is considering installing Cardax FT UltraSec to protect and monitor areas where high consequence substances are stored. Cardax FT UltraSec is a high security variant of Cardax FT. It achieves superior security through very high levels of system data encryption and monitored communications, using encryption key lengths of 128 bits and 168 bits. Cardax FT UltraSec meets high security requirements determined by the Australian Radiation Protection and Nuclear Safety Agency (a Federal Government agency charged with responsibility for protecting the health and safety of people, and the environment, from the harmful effects of ionizing and non-ionizing radiation).

Interfaces between a range of third party systems and Cardax FT have been established including to their Digital Video

Recording system and to the University's energy management system. La Trobe University has its own power generation capacity and it on-sells the excess energy it generates to the grid. The University is looking to upgrade their CCTV camera system to one which incorporates artificial intelligence in drawing attention to suspicious activity. They plan to implement the product this year as a stand alone system and if it is rolled out further it will be interfaced to Cardax FT also.

There is opportunity to integrate the University's Syllabus Plus resource scheduling system to Cardax FT via the Cardax FT Syllabus Plus Interface. This will facilitate cost savings and improve efficiencies in resource management.

Wayne comments, "The segregation of fundamental components of security is no longer. Today security systems are integrated. You have intrusion detection, door latch monitoring, key position

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