

County Court


VICTORIA

C-Bus Control and Management System

Case Study ¹⁴



CIS does Justice to New Victorian County Court



The Victorian County Court is a 10-storey building with an additional basement level housing judges' car parks, plant rooms and holding cells.

The Building


Situated in the heart of Melbourne, on the corner of William and Lonsdale St, the Victorian County Court is a 10-storey building, with an additional basement level housing judges' car parks, plant rooms and holding cells.

The ground floor accommodates six courtrooms, as well as administration offices and jury lobby areas. Levels one to seven contain courtrooms along one side of each floor and judges' offices on the other, whilst levels eight and nine have been left bare in anticipation of future expansion. The top level houses an additional plant room.

The Requirements

The aim of the project was to provide the client with an energy efficient lighting control solution that was capable of a high level interface with the court's Honeywell Building Automation System (BAS) and the Courtroom Management Booking System.

To meet this requirement, Melbourne based systems integrators, Elecraft, recommended the Clipsal C-Bus system. With a renowned reputation for energy efficiency and product reliability, C-Bus provides the courts with an adaptable and future-proof automation solution.



Completed in May 2002, Melbourne's new multistorey County Court incorporates the latest in state-of-the-art automation technologies.

Housing Clipsal Integrated Systems' C-Bus Control and Management System, Scene Controllers and C-Lution Graphical User Interface (GUI), the building is now equipped with the technology to cater for the busy and ever-changing demands of the court's schedule.

Victorian County Court

The Result

To ensure the robustness and reliability of the C-Bus system, a dedicated Ethernet control backbone for C-Bus services has been implemented. A C-Bus Ethernet Network Interface has been located on each floor, with a separate internet-style IP address allowing easy network identification and programming. This high-speed connection offers the client complete control of the vast internal and external lighting networks throughout the building.

The application of Clipsal Integrated Systems' C-Lution software has enabled a high level Modbus interface with the Honeywell BAS system. The software runs from a computer in the basement plant room, where a fully interactive Graphical User Interface displays the status of active lighting zones with Modbus BAS and local control interface logging. This facility enables lighting scheduling of access and courtrooms as well as booking override facilities.

Once courtroom lighting is scheduled, it is then managed via Scene Controllers, which have been programmed to achieve four preset lighting levels. Any unauthorized use of courtroom lighting, will be recognized by the C-Lution system and the lighting shutdown within 30 seconds.

The system also caters for 'out of hours' functioning where lighting zones, when scheduled to switch off, will reduce to 50% illumination for a period of five minutes, thus allowing occupants to leave the zone or reschedule the lighting. Judicial office zone lighting can be manually overridden via the single gang key inputs located in all judicial and administration areas at any time for a period of 2 hours.

In addition, to ensure continued operation during a power failure, all equipment is connected to an uninterrupted backup power supply system.

The Benefits

After overcoming some initial teething problems, the building owners are now finding the system simple to operate and very reliable. To ensure smooth operation, a full-time Facility Supervisor has been appointed by Honeywell, administering the day to day running of the system.

Manual override facilities in judicial zones allow the convenience of after hours control in primary and associated lighting zones, whilst two hour timing in these zones ensures maximum energy efficiency at all times.

The incorporation of automation in the County Court House has provided a flexible, convenient, energy saving and cost-efficient building management solution.

The Benefits

Features	Benefits
C-Lution SCADA software	Modbus interface with the Honeywell BAS System, allowing for full-time based lighting scheduling with Access & Courtroom booking override facilities.
C-Bus Scene Controllers	Key Input Units manage courtroom lighting, allowing for multiple AV scene presentations.

Installation Data

C-Bus Project	Victorian County Court
C-Bus Installer	Elecraft System Integrators



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