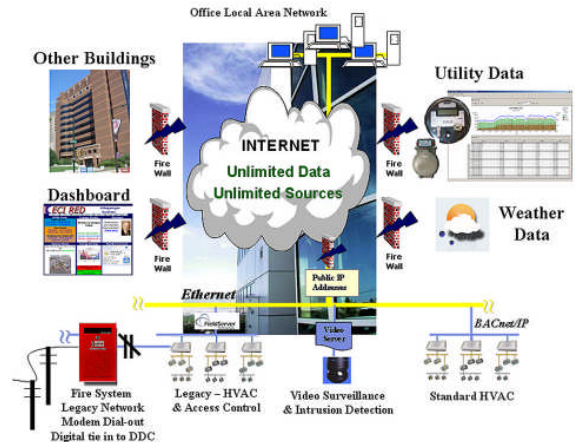


BUILDING SYSTEMS INTEGRATION

www.energyctrl.com

Intelligent buildings offer coordinated system operation between Direct Digital Control (DDC) and other technologies. ECI takes this a step further and uses integration to promote energy efficiency. This use of integration allows for many projects to pay for themselves with energy consumption savings within a short number of years.

ECI uses BACnet® devices and software to create building system integration. One of the key challenges with interface to a myriad of systems; DDC, access, security, etc., is that users must support five or more software packages on any one computer. To overcome that problem, ECI created a building portal or Real-time Enterprise Dashboard™. Data security is important for an integration of this scale and requires a significant effort to address facility data protection. IPSEC or Internet Protocol Security technology is deployed to ensure that all interactions between the system, the dashboard, and the Web are secure. ECI also represents Tridium and Echelon for broader integration services.



KEY TECHNOLOGIES:

- heating, ventilation, and air conditioning
- lighting retrofits
- electronic access
- DDC
- video surveillance
- network infrastructure
- intercom
- fire detection
- clocks

SUCCESSES:



- *The Summit at Cottonwood*
- *Albuquerque Academy*
- *Santa Fe Public Schools*

THE UNIVERSITY OF NEW MEXICO

UNM performed a series of campus-wide physical plant utility projects that addressed the university's need for significant repair, improvement, and upgrade of its utility systems. UNM received an Energy User News Project of the Year Award for this initiative.

Managing building systems is data-driven and requires access to information and the ability to manipulate extensive amounts of data. This is done through BACnet/IP-based facility automation and allows for central and remote monitoring of systems that are also interfaced to the Ethernet Fiber Optic Campus Network via Web Browser technology.

The campus has integrated energy generation for classroom comfort; thermal storage of solar energy is used for Demand Response. The system incorporates real-time energy management & building intelligence to monitor building conditions and solar generation.



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Using technology to improve the use of energy and create a better environment