



Building Management Systems – The new era of integration

Building Management Systems (BMS) within tertiary institutions have traditionally grown organically, driven by individual project or building upgrade. As a result, centralisation and standardisation of BMS infrastructure across a university campus is often limited, with potentially a range of ages, manufacturers, protocols and system architectures in operation.

In contrast to this, the use of BMS systems within industry is evolving. BMS systems are no longer utilised for only alarm monitoring and reactive maintenance of core building services systems; but a range of monitoring, control, optimisation and user feedback functions at multiple levels within an organisation.

Availing the full potential of a BMS system requires a standardisation and centralisation of BMS infrastructure, enabling all users a single point of access and standardised methods for interacting with the BMS. Critically this standardisation and centralisation needs to be done without the expense of wholesale replacement of BMS infrastructure and without creating vendor dependencies for BMS system maintenance and augmentation.

Where wholesale replacement of BMS infrastructure is not cost effective, BMS system integration presents a potential solution.

This presentation will review the current industry best practices around BMS system integration, including integration options, technologies, trends and key considerations.

The presentation will cover the modern uses and demands placed on a BMS system, and how effective use can benefit wider groups within a tertiary institution.

Importantly the presentation will provide options for achieving integration and centralisation of BMS infrastructure through vendor independent open BMS network architecture that enables the university full flexibility in the ongoing maintenance and augmentation of BMS systems.

The presentation will be supported by a key case study from within the tertiary education sector. This presentation will be co-presented with this tertiary institution, currently in the process of implementing a significant BMS system consolidation and integration.

Keywords: Facilities Services, Building Management System (BMS), Energy

Management System (EMS), Energy Metering, Energy Efficiency.