

CASE STUDY HOSPITAL BUILDS SAVINGS ACROSS THE GENERATIONS

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The Trend BMS at Sweden's Halmstad Hospital features every generation of IQ controller. It stands as testimony to the future-proof nature of Trend's building control technology – and to its energy saving capabilities. A number of IQ3xcite controllers are the latest addition to the much-expanded and fully integrated system, parts of which have been operating for approaching twenty years.

The hospital at Halmstad is the largest in the Swedish province of Halland and provides emergency treatment and specialist medical care to a regional population of 275,000. Occupying a 150,000m² site, it comprises a diverse mix of building types, the oldest of which date back to 1915.

The first part of the Trend system – incorporating IQ1 series controllers – was installed at the beginning of the nineteen-nineties, when the hospital was undergoing major refurbishment and expansion. IQ2 models – and then IQ3xcites – were used during subsequent phases of the BMS's development. Today's system comprises almost 200 controllers with a total of 6000 input and output points.

The controllers are distributed across 19 LANs, the IQ3xcites connecting to an Ethernet/TCP/IP network. All are interlinked to form a single, centrally managed system, within which the

old and new controllers can directly interact – the result of Trend's policy of backward compatibility.

Trend's '963' supervisory software provides the main means for viewing system monitored data and adjusting control settings, both locally and remotely. In the latest area to be covered by the system – a new entrance building and clinic – there is also an IQView touch-screen supervisor.

The BMS controls and monitors a wide variety of HVAC services, such as radiator systems, fan coil units and air handlers – including the plant that serves the hospital's 18 operating theatres. In addition, it switches most of the lighting in corridors, culverts and car parks, as well as monitoring medical gases, electrical switchgear, UPS systems, fuel tank levels and even the number of vehicles in the parking areas. It also records the readings from the site's many energy and water meters (via M-Bus interfaces).

Through its close control of the HVAC and lighting equipment the BMS has achieved significant reductions in energy usage. Using the '963' supervisors, the hospital's engineers have been able to continually tune the operation of the building services to match demand, thereby maximising savings.

Halmstad Hospital's BMS was entirely supplied and engineered by Trend Technology Centre, Geamatic Styr AB of Gothenburg.

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