University Hospital of Tampere

Tampere, Finland

Healthcare

Running a major hospital demands uninterrupted operation of automated systems, 24 hours a day.

Management and staff lack the time and resources to manage disparate systems and chase unreliable suppliers. The University Hospital of Tampere in Finland found a partner in TAC who recognized their needs and could provide the right support and Building IT solutions for a modern hospital.

The University Hospital of Tampere is the main medical center in the Pirkanmaa region. It covers 35 local health districts and provides vital healthcare services to over one million people. The hospital also functions as a teaching and research institute for medical students. First opened in 1962, the original hospital now encompasses thirteen buildings.

The building automation system it depended on had been maintained over the years by two well-known technology companies. Repeated requests for undelivered technical assistance and shortages of spare parts finally led hospital management to search for a new supplier. TAC's position as the market leader in Open Systems for Building IT®, meant that it possessed the expertise and stability that the hospital was seeking.

Customer Benefits

- Adaptable, flexible environment for changing future needs
- Centralized monitoring and control of different systems for 13 buildings
- Ability to generate usage reports and identify event trends

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The Challenge

Hospitals must constantly adapt working practices in order to keep pace with medical breakthroughs and new treatment methods. To keep within budget, many hospitals today need medical and patient facilities that can change quickly to house different functions. This can only be achieved if the building automation infrastructure is capable of integrating a diverse range of technical, medical and IT applications and subsystems.

The Solution

TAC installed a LonWorks®-based system operating on an open communications platform linked via the hospital's TCP/IP-based intranet. This allows authorized users to monitor and control different systems such as HVAC, lighting and power from three purpose-built monitoring rooms, each equipped with a TAC Vista® Workstation for fast and accurate decision-making.

Healthcare Profile

Healthcare facilities operate 24/7 and require 24/7 system reliability and precision. Environmental conditions must adjust quickly and uniformly to the needs of each patient. Particular areas, such as surgery suites and laboratories, must maintain specific temperature, air filtration and ventilation requirements.

Managing energy usage without compromising life critical environmental needs is a huge challenge faced by maintenance and engineering personnel. For both patients and staff, TAC's open systems solutions mean a total quality healthcare environment and efficient facility operation.

Building information is collected and processed in a TAC Vista server, enabling the creation of historical log data that can be used to generate usage reports and identify event trends. Other configurable functions include dynamic alarm reports, value editing and time schedule editing.

The Bottom Line

University Hospital of Tampere now has a totally modern open communications system supported by a trustworthy partner with in-depth knowledge of hospital environments. TAC service agreements guarantee system reliability and give the client immediate access to new LonWorks technology as and when it becomes available. The direct benefits are greater patient safety, better hospital efficiency and reduced operating costs.

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For more information, send your questions or comments to corporatemarketing@tac.se

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