

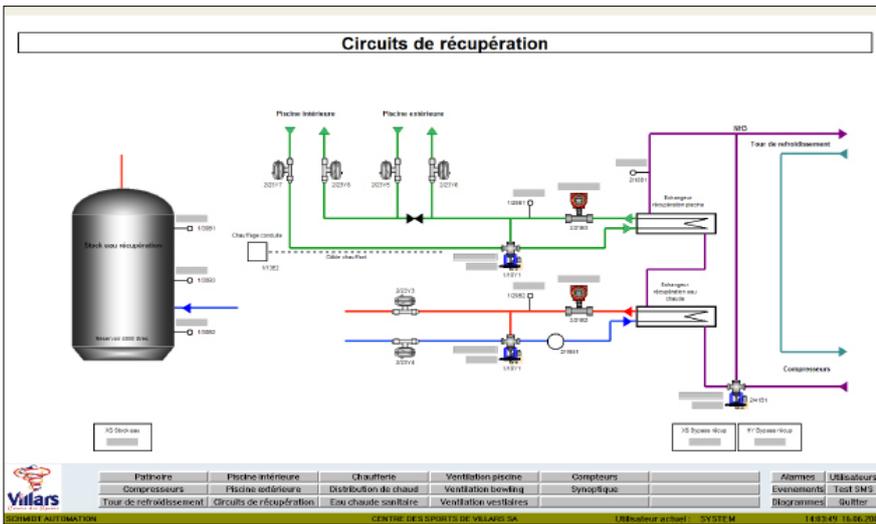


Building automation in Centre des Sports de Villars SA

zenon combines comfort with efficiency

Today, the integration of different technical components and equipment throughout the whole system is required for future-proof building automation. Only then is it possible to have centralized and transparent building control. Schmidt Automation implemented just such a solution for the sports center in Villars-sur-Ollon. A powerful zenon solution now provides visualization and monitoring for the Swiss sports center's building management.

The popular Swiss resort of Villars in the heart of the Vaudois Alps has long made a name for itself by offering its visitors a great combination of sport, relaxation and culture. At an altitude of 1,300 meters, the charming, idyllic village has all the leisure attractions that an active holidaymaker could wish for. One of the many highlights for tourists in the region is the sports center in Villars-sur-Ollon. This sports center features, in addition to a restaurant and accommodation, tennis courts, squash courts and two multi-purpose halls for tennis, volleyball, badminton, soccer, hockey, gymnastics and fitness. The facilities also include a bowling alley, an indoor and an open-air swimming pool and an ice rink. The leisure facility covers a total of 3,000 square meters. In order for visitors to be able to enjoy these leisure opportunities, visitor comfort and efficient building management are indispensable. The heating and ventilation of the building are now visualized with zenon, as are the swimming pools and the ice rink. zenon ensures optimum conditions for visitors.



Simple, easy-to-understand menus ensure that the user can work efficiently with zenon.

NECESSARY MODERNIZATION

The previous building management system, which still ran on an MS DOS operating system, was in use up to 2008. The managers of the sports center decided to phase out the old system in order to be able to incorporate new technologies and modern hardware in the overall solution. Connecting different, new control units was only possible to a limited degree and sometimes not possible at all. SAIA control units were to be used as part of the new overall solution but there were no drivers for this with the old solution. zenon was the only practical SCADA solution for the end customer and the company responsible for integration, Schmid Automation, because it was the only one that also offered a driver for SE-Electronic. „One of the striking strengths of the zenon solution is the amount of drivers. These include, for example, BACnet, LON, EIB and M-Bus. A total of more than 300 drivers make it possible for our customers to connect to any of the most recent or established DDCs. This independence from manufacturers and hardware provides not just a high degree of flexibility for users, but also protects the investment on a lasting basis“, explains Frank Hägele, Sales Manager at COPA-DATA.

COMMUNICATE AND REACT MORE QUICKLY

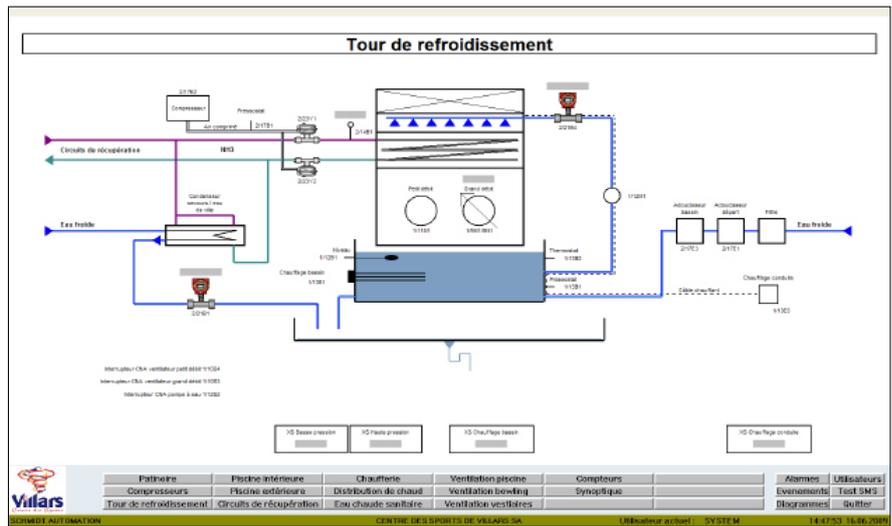
The Building Manager in charge at Villars wanted modern communication capabilities such as SMS or spoken messages in alarm management which were not part of the previous solution. “Visualization in building automation is increasingly coming under price pressure. However, low-cost programmable logic controllers only have limited functionality. The zenon solution offers consistency, from Windows CE through to Windows Server 2008 and, due to its modular design, it excels as

future-proof software appropriate to the needs of building services. It is precisely zenon’s modular construction that makes it possible to implement all our customers’ wishes,” explains John Schmidt, Director of Schmid Automation. As a service provider and partner in the implementation, the Swiss company Schmid Automation worked together with the COPA-DATA partner, SATOMECC. The core competencies of Schmid Automation are system solutions for measurement, control and regulation of equipment as well as heating, ventilation and air conditioning in building services. Customers of the Lausanne-based company include private and public institutions in French-speaking Switzerland and German-speaking Valais. The building services project for the sports center in Villars-sur-Ollon was implemented by Schmid Automation within three months.

OPEN SOLUTION, EXCELLENT SUPPORT

Now zenon 6.22 from COPA-DATA is the open and modern solution that controls the heating, ventilation and air conditioning of the different rooms and leisure attractions. The software runs on Windows Server 2003 32 bit (with a RAID hard drive). Overview screens for compressors, ventilation, heating warm water, the water recirculation circuit, heat distribution, coolant circulation and ventilation provide the user with clarity and enable quick orientation within the system. Meters, samplers and diagrams provide an overview. As a result, the user knows what the equipment in the building is doing at any time; whether prescribed values, such as temperatures or pH values, are being adhered to and if manual intervention is necessary. Simple and clear menus ensure that the user can work efficiently. “We already had very good experiences with the predecessor versions, zenon 3.5X and zenon 5.50. The openness and independence of the solution was always convincing to me as an engineer. In addition to the software’s functionality, we particularly

Overview screens in zenon, such as the cooling circuit shown here, provide clarity to the user and enable them to quickly orientate themselves to the system.



appreciate the support offered by SATOMEK in their capacity as a zenon partner and COPA-DATA in their capacity as a manufacturer," says Schmidt Automation Director, John Schmidt.

OPTIMUM CONTROL AND MONITORING

The focus for the municipality of Villars-sur-Ollon was, and remains, in its capacity as the operator of the facility, to monitor and check the facility. The Archive, Extended Trend and Message Control modules, including the Text-to-Speech Engine, therefore play an important role in the overall solution. The sports center records all values and information in the Archive; Extended Trend makes it possible to observe current and historical data in its development stage and to document changes. Nothing prevents quick intervention thanks to the clear display capabilities. The alarm management in zenon, of course, also allows quick responses by forwarding system information and results quickly to the user. Message Control sends all relevant messages in various forms – by SMS, email or pager – to the team in charge. The sports center in Villars-sur-Ollon also uses Text-to-Speech.

WORK EFFICIENTLY, SAVE MONEY

The Facility Manager of the Swiss sports center and John Schmidt, the partner for implementation, see the central monitoring of the building and control units as the primary benefit. zenon ensures that the heating, cooling and ventilation equipment work together optimally. John Schmidt sums up: "The long-term goal of the facility management is now to continually increase functionality and increase the efficiency of the buildings at the same time. Working efficiently goes hand-in-hand with time and cost savings. This is a necessity, especially in today's economically-tense times."

SATOMEK – THE ZENON PARTNER IN SWITZERLAND

SATOMEK AG is a COPA-DATA partner and vendor of automation systems. The company, based in Cham, supports its customers in Switzerland and Liechtenstein with highly qualified support, consulting, training and a comprehensive warehouse in Switzerland. Control systems, visualization, HMI and/or IPC and network technology are just some of the areas in which the Swiss company has expertise. SATOMEK AG was founded in 1976 and has been privately owned by the Studhalter family since 2005. It has 14 employees. The Swiss company's customer base includes mechanical engineering companies, equipment manufacturers and control unit manufacturers.

Further information: www.satomek.ch

AN OVERVIEW OF THE ADVANTAGES

- ▶ integration of different equipment and functions in one solution
- ▶ transparent overview of all building services systems
- ▶ efficient work and long-term reduction of operating costs