

Building Automation Facility Management

system Your specialist for
automation



Innovative
Transparent
Reliable
Team oriented

Capable
Dynamic
Safe
Partnership

The automation of industrial and other building structures is becoming increasingly important in today's world. Thanks to modern advances in the areas of microelectronics and communication techniques, it is possible to manage and regulate these processes more accurately, efficiently and in a more comfortable manner.

Automated systems form the nerve center of office buildings, hospitals, hotels, art centers and other commercial buildings. The modern automation process integrates the operations of various electronic functions such as lighting, shadowing, heat, air conditioning and ventilation. Up to now, these were operated individually. The benefit to the manager of such a system lies in the fact that it is easy to operate, and allows for adjustable settings for each function.

In such a setup, the automated systems of the rooms and other technical building facilities are integrated within a central management system. Another benefit for the operator of such a building lies in the fact that the facility can be run, overseen and managed in a standardized manner both internally and externally.



In order to achieve these goals in a way that is reasonable and prepares an organization for the future, and at the same time ensures a secure return on investment, developers and operators today demand standardized systems. Global communication technologies such as Ethernet and Internet, as well as internationally aligned protocol systems, have emerged as key requirements at present. These techniques allow companies to exchange information without encountering costly interfaces.

In 1989, after many years of hands-on experience in the automation industry, Mr. Andy Bärtsch founded his own company **Comsys Bärtsch**. His goal was to further develop these trends as an independent systems integration engineer. He runs his business based on the following philosophy: "Why should each company develop and manufacture their own products rather than use what already exists in the market? At the moment the only tool available for connected standard internal communications is the Ethernet. The means of managing internal communications is becoming more efficient and affordable. The addition of the Internet-Protocol TCP/IP has contributed significantly to the Ethernet's success in the global information society."

Many buildings have been equipped with integrated building automation systems by **Comsys Bärtsch**. These systems have been set up in a way that makes life easier for the system manager, due to the ease with which the system can be operated. Andy Bärtsch relies on his young and dynamic team, who eagerly respond to new customer requests. Their practical know-how is integrated into a vast amount of the company's own software applications from which future automation systems will benefit.

Based on his efforts as a pioneer with WAGO TOPNET, **Comsys Bärtsch** was the first systems integrator to receive the qualification "Solution Provider WAGO TOPNET".

Comsys Bärtsch is an active member of the Building Network Institute GNI.

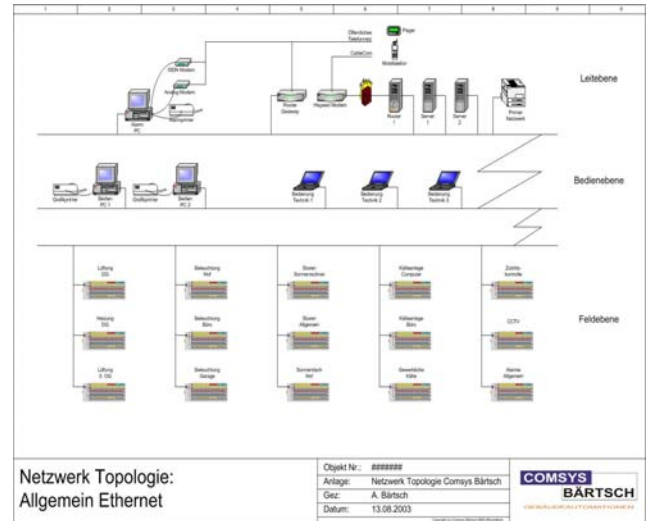
For many years, **Comsys Bärtsch** has provided Ethernet capabilities for communications between Management-Information-Systems (today known as SCADA: Supervisory Control and Aquisition) and individual systems. They have also achieved the quantum leap in the area of building and room automation, and the control and regulation of primary systems - with the help of WAGO TOPNET technologies.

Two office buildings in Pfäffikon SZ have been equipped with this technology. Remote distribution controllers manage the entire building technical operations. The Ethernet-field bus controllers are able to take over the communications with other controllers, the management-system and the external alarm system. The respective controllers are equipped according to their specific digital and analogue input and output requirements.

Mr. Bärtsch is very enthusiastic about the new products from WAGO. "We are using the same equipment for the room control as for the primary systems. We conduct the automation for an entire building with roughly ten different electronic connectors for interfaces from WAGO. We have already developed several drivers with connectors for serial interfaces, in order to intelligently integrate smaller sub-systems. This also brings an advantage to the operator in regard to future maintenance issues.

An additional benefit: Because of the cessation of previous hierarchies and interfaces, the opportunities to deploy the Ethernet and Internet are maximized. For example, should there be a breakdown concerning the SCADA system, the information regarding an unacceptable deviation of the ceiling cooling system will be communicated directly from the controller to the operator via e-mail.

This all may sound simple, but is based on many years of experience with complex building technology processes, such as air-conditioning, and modern information and communication technologies. All this knowledge is now also stored in the software of WAGO-controllers. This all provides evidence to the importance of innovative system integrators such as **Comsys Bärtsch** in the area of automation technology. **Comsys Bärtsch** connects the requests of investors, users and facility managers for global automation, communications and software products in a customized, transparent and cost effective manner. All this happens in an environment of partnership between clients and technology suppliers.



„Think global, act local“. This motto applies to **Comsys Bärtsch**, a company that believes in taking advantage of the best technology in the world, and applying it to the needs of the local market.

As a qualified partner, **Comsys Bärtsch** shares their knowledge with their clients and provides “turnkey” systems solutions in the following areas:

Building automation

Delivery of all required equipment; programming for field, automation, management and operations functions; and the integration into the facility management.

Industrial automation

Delivery of automation systems as well as the programming of custom made SCADA-systems.



Services

Comsys Bärtsch offers everything for building automation from a single source, which prevents unnecessary interfaces and shortens communications efforts. Their company philosophy requires an incredible breadth and depth of knowledge, and enormous flexibility from the **Comsys Bärtsch team**. The most important aspects of their service include:

- Consulting
- Planning, concept
- Project management and programming
- Execution
- Documentation
- Implementation
- Optimization
- Education
- System maintenance



Quality, Appointments, Cost

Comsys Bärtsch uses the most modern technology and high quality products, which are released on the market only after thorough testing in their laboratories. As the systems are set up, modern tools are used, and a proven, practical systematic approach is executed. **Comsys Bärtsch** ensures the quality, appointments and costs as they execute their expertise in an innovative way.

Systems

Because **Comsys Bärtsch** believes in working with transparent, non-supplier-dependent components and automation systems, they are able to offer customized, individual solutions. These solutions are perfectly fitted for company-specific and project-specific needs and, at the same time, they remain flexible and open for future changes.

Servicing

Any system is only as good as the servicing provided behind it. Clients of **Comsys Bärtsch** are provided with complete support for the maintenance of their systems. Part of this service is their 24/7 emergency support-team. For long-term investment protection, **Comsys Bärtsch** has established maintenance and servicing contracts.

Team

Comsys Bärtsch has created a name for itself in the area of building and industrial automation over the last 10 years. The small and dynamic team, led by Mr. Andy Bärtsch, is proud of its know-how. The team members are highly motivated to expand their knowledge as they continue to work together for their clients on future systems.

Comsys Bärtsch is located on the left side of the lake of Zurich, in Rüslikon, next to the train station.

Comsys Bärtsch

Measuring, adjusting, and controlling technologies

Business Development
Technologies & Services

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