



Automation for Hospitals for Swissmed Health Center S.A.

We aim at creating open and friendly medical facility for Warsaw inhabitants, and providing international standards in medical treatment. In all our facilities, we attach significant importance to providing safety and comfort both to our patients and medical staff. Thus, we apply advanced technology solutions and enjoy professional support rendered by the Asseco Poland specialists during the process of equipping our successive hospital.

Roman Walasiński
the President of the Swissmed company

Customer profile.

The activities of the Swissmed Centrum Zdrowia S.A. have carried out in Gdańsk since 1996. The facility offers a wide range of services: from family medicine, through consultations in specialist surgeries, to hospital treatment. The Swissmed facility, covering an area of almost 8,000 sq. m, was the first of such type facility in Poland, and has been granted accreditation of the Minister of Health, so far as the only one in Gdańsk. The accreditation confirms high evaluation of medical service level and attendance to patient safety. In Poland, the list of certified hospitals includes only 100 facilities. In autumn this year, Swissmed is opening its successive hospital: it is located in Warsaw, in the Targówek quarter. Just like in the first hospital of our company in Gdańsk, the Asseco Poland specialists executed all electricity, low-current and automation installations therein, and designed and started the Building Management System – BMS.

Unique competences.

Obviously, in terms of infrastructure and requirements a hospital definitely differs from an office building. And due to the fact that for the last several dozen years practically no hospitals were built in Poland (an average age of a Polish hospital exceeds 40 years!), professionals experienced in the field of designing and building hospital facilities are difficult to find.

Our experience in the field of automation, power engineering and safety systems for hospitals is unique on the market. We started our activities in the Institute of Hematology in Warsaw. Then, in a comprehensive way we executed all electric, low-current and automation installations in the modernized District Hospital in Stargard Szczeciński. The Medicover Hospital in Wilanów faced us with the great challenge: it was the largest hospital investment in the history of Polish private health care sector. We have equipped it with extended automation systems and the BMS. We implemented the similar project, although smaller in scale due to facility size, in the Swissmed facility in Gdańsk. We are satisfied to have gained the trust of the company owner and Management Board due to our competences and reliability. For some time, they were hesitant in selecting the contractor for commissioning works in the facility in Warsaw. And it is quite significant

that it is not their intention to stop with it. The Management Board is already working on successive investments in two large cities. "I am convinced that we shall be involved in their implementation.

Tadeusz Kij
the Director of the Building Automation
Division and Data Center of the Asseco Poland

The hospital is constructed in the Tivoli Park area in the Targówek quarter, bordered by the Świętego Wincentego and Malborska streets. The cost of the construction exceeded 35 million PLN, and the same amount is to be spent on modern equipment.

Operating block will meet the highest standards, and will include 3 operating rooms and 6-bed post-operative room, along with 3-bed intensive care unit. Back-up facilities include sterilization room of surgical equipment and laboratory. In total, there will be 44 beds in over a dozen rooms. The Swissmed Hospital in Warsaw will be equipped to carry out complex treatments in the fields of general, oncologic, aesthetic, and pediatric surgeries, as well as laryngology, urology, gynecology, orthopedics, ophthalmology and neurosurgery.

Project scope.

The Swissmed Hospital forms a section of service building complex located in the Tivoli Park.

The General Contractor – Unibep SA – extended the scope of the contract and entrusted us with execution of complete electric and telecommunication installations in all service buildings. However, in the hospital building the saturation level in relation to installations is definitely the highest.

Zdzisław Łukaszewicz
the Project Manager representing the Asseco Poland

The Asseco Poland specialists executed the complete electric installation and telecommunication network, as well as automation and low-current systems for: fire alarm, burglary and attack monitoring, access control, CCTV, and carbon monoxide detection. They have also installed the latest generation summoning system.

In view of patient safety, standard solutions are not applied in hospitals. Electric network, in particular in operating rooms, is unique and separated from

external network, while compensating and earthing installations must meet severe requirements. Continuity of power supply is guaranteed by power generator with capacity exceeding 1000 kVA, and voltage maintenance system provided for the most important medical technology systems.

Zdzisław Łukaszewicz
the Project Manager representing the Asseco Poland

Drawing up a detailed project, as well as implementation of the BMS were also commissioned by the Unibep SA to the Asseco Poland specialists. Modern building management systems have replaced former dispatch rooms. Data supplied by hundreds of sensors and detectors are processed by local controllers and server systems, to provide immediate operating image of particular installations.

The system installed in the Swissmed facility in Warsaw controls and monitors the following installations: electric, ventilation, and thermal ones, as well as hydrophores. Our engineers have also trained system administrators and equipment maintenance technicians.

Modern hospital is based on technology.

Large experience in the field of hospital building automation enabled the Asseco Poland specialists not only to professionally and comprehensively install the systems, but also to avoid problems.

Already in the beginning, we have managed to disclose some project shortcomings.

Zdzisław Łukaszewicz
the Project Manager representing the Asseco Poland

Hospitals must meet very severe requirements in relation both to media supply, as well as asepsis maintenance, and at the same time provide the highest possible level of comfort to patients and medical staff. How to combin such requirements with operating cost optimization?

By applying technology – a modern hospital requires engineers who not only monitor particular installations, but are also able to advise how to provide optimum conditions for patients in the most cost-effective way. Our specialists provided them with a working tool, i.e. the BMS. Upon implementation of the system, just installed in the Swissmed Hospital in Warsaw, the same technology has been applied as the one applied in Gdańsk. It will allow us to make use of the effect of scale as we shall be able to control both systems from one location.

Zdzisław Łukaszewicz
the Project Manager representing the Asseco Poland

As the BMS, apart from imaging the condition of an installation, allows for active management of equipment operating parameters, hospital operating costs may be optimized by making use of lower demand for media at night. The above applies not only to active lighting management but also to ventilation control rooms that may be switched over to energy saving programs.

The decision was reached to install the latest generation Visocall-IP summoning system in the hospital. Each of the system elements is assigned with unique network address, and communication is carried out in a separate network of the summoning system. Net value of the contract implemented for Swissmed in Warsaw amounted to nearly 5.5 million PLN.