

State-of-the-art network technologies in Magyar Telekom's new office building.

Axis network cameras in an inspiring, modern environment.



Organization:
Magyar Telekom Nyrt.

Location:
Budapest, Hungary

Industry segment:
Commercial

Application:
Safety and security

Axis partners:
T-Systems Magyarország Zrt., AxxonSoft

Mission

In Hungary's biggest and most modern office building, world leader, Axis Communications IP cameras are used for surveillance. The office complex is shared between Magyar Telekom and T-Systems Magyarország on eight floors, three-story underground garage and on more than 105,000 square meters and provides workplace for more than 4500 employees.

It was a professional challenge of enormous proportions to ensure the protection of the building and its staff, by the installation of a camera system among others. The aim was to make the cameras part of an integrated building management system and to demonstrate T-Systems and Magyar Telekom's technology solutions for business and marketing purposes.

Solution

The cost-effectiveness of the security system and the tight deadlines were the challenges in design. T-Systems technicians eventually installed 854 network cameras within the expected time frame; however, there are 11 000 structured endpoints to meet all needs in future scenarios.

Cameras are used for general surveillance both indoors and outdoors. In addition to observing high-priority areas, all traffic routes and parking lots and even the rooftop running track can be seen on the displays. There are cameras in the halls, storage rooms and cloakrooms as well. The planned integrated building management system operates the cameras together with the fire alarm, intrusion alarm and access control system, when a particular sensor is signaled, the image of the nearest camera is always displayed in the control center. This allows the security service to verify immediately, 24 hours a day, whether a false alarm or a real emergency has occurred.

“The quality, as well as the excellent relationship with the manufacturer and the distributor counted a lot in the selection. With such a large number of cameras, it cannot be allowed during the operation that cameras are un- and reinstalled on a weekly basis, if they fail or have any problems. They must work well in the long run.”

Csaba Juranovszky, Pre-Sales Engineer, T-Systems Magyarország Zrt.

Installed cameras by location and model

AXIS P3225-LVE MK2 and AXIS Q6055 outdoors, AXIS P1447-LE in the underground garage and main hallways, AXIS Q6000-E in the lobby, AXIS M3105-L in storages and cloakrooms, AXIS P3224-V in the elevators.

The cameras are easy to maintain with a user-friendly interface and remote focus adjustment. Thanks to Lightfinder technology, the cameras are extremely light sensitive and can produce color-rich, low noise, detailed images even in low light conditions.

Axis Zipstream, optimized for video surveillance, reduces bandwidth and storage requirements by an average of 50 percent. Among the ACAP applications that can be installed on Axis cameras is Axxon's own application, which allows analytics based on various metadata to be run on the camera side rather than on the server side. With these solutions, instead of the originally designed 20-30 servers, only four were needed, which significantly reduced costs.

Result

As a system integration company, in addition to security, one of the main considerations of installing the camera system was to create a building which transfers the message to customers that the most modern network technologies are applied here. Thanks to solutions from T-Systems Hungary and Axis Communications, the result is a full-range camera system that, when presented to customers, enables Telekom and T-Systems professionals to demonstrate efficient and intelligent operation of cabling, switching and servers.

For example, the large lobby's surveillance camera can be supplemented with a peoplecounting algorithm to determine how many people stay in the building during a mass event. Applications that are great for statistical and marketing purposes like this are currently being designed and developed.

Conclusion

- > Comprehensive protection: 854 Axis network cameras, 11,000 network endpoints in Hungary's largest office building
- > Axis Lightfinder technology: Color-rich and high detail video in low light conditions
- > Axis Zipstream technology preserves all the important forensic details while lowering the storage requirement and save bandwidth
- > Integrated building management system: cameras work with fire alarm, intrusion alarm and access control system



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