Safe education for Siberian Federal University (SibFU).

Security system incorporating Axis network cameras helps students and staff feel safe at SibFU.

Organization:
Siberian Federal University

Location:
Krasnoyarsk, Russia

Industry segment:
Education

Application:
Safety and security

Axis partner:
ENGINEER Company, AVReg

Mission

According to the customer's specification during the first phase of the project, the integrator needed to deploy a video surveillance system at Siberian Federal University. The project provided 24/7 video surveillance for the building perimeters, entrances, hallways, and public areas. The next phases of the project will involve further system evolution and creation of a single monitoring center.

Solution

To provide video surveillance for the university campus (dormitories and educational buildings), SibFU administration selected 19 different Axis network cameras, both fixed and fixed dome models; 600+ cameras in total. Video streams from these cameras are processed by 72 AXIS 240Q Video Encoders.

Further video data processing and storage is managed by DELL server hardware, while AVReg software is used for image processing. Dome cameras receive power supply from PoE-enabled switches. Outdoor cameras with thermal enclosures are supplied with power from TFortis equipment.

Result

As a result of the first phase of the project, the university received a high-quality video surveillance solution with optimum performance and reliability that meet current needs and can be further expanded in the future. The number of failures were significantly decreased, potential downtime was reduced and personnel costs were reduced as well.

AXIS COMMUNICATIONS

58917/EN/R1/1504

"ENGINEER Company's decision to deploy video surveillance based on Axis cameras hit the bull's eye meeting our performance, flexibility and operational cost expectations."

Vahrushev Alexey Alexeevich, Head of Engineering Support Dept.

The customer

Federal State Autonomous Educational Institution of Higher Professional Education "Siberian Federal University" (SibFU) was established in 2006 as a result of merging the four largest universities in Krasnoyarsk. In 2012, Krasnoyarsk State Trade and Economic Institute also became a member of SibFU.

Today, SibFU includes 19 institutes with more than 34,000 students. More than 3000 teachers train specialists in 171 subjects. Three new educational buildings were constructed over the few past years. 27 dormitories were originally built for students and teachers, and two new ones commissioned in 2014.

Project implementation

According to the requirements of federal and regional administrations, security systems should be installed in every school. In particular, these needed to be intelligent video surveillance systems capable of highlighting potential security incidents.

A large number of buildings distributed over campus territory and their non-standard architecture required the use of a creative approach when developing the university's specifications and project requirements for the installer. As a result, 19 Axis camera models offering different features were selected for the project. The following were general requirements for all cameras:

> IP-protocol support
> PoE support
> resolution of at least 2 MP
> automatic day/night switchover
> color images
> warranty period at least 2 years

Axis IP dome cameras offering ease of installation and aesthetic appearance were installed indoors while Axis network cameras with thermal enclosures were selected to ensure perimeter security and surveillance over adjacent territory.

System evolution

The next stages of security system evolution (as part of SibFU's strategy) involve integration of local objects into a single surveillance center. The key feature will be the ability to play video records from archive or view live streams from any camera on local objects. In addition, there is a plan to have live video surveillance from the most critical cameras to minimize response times and quickly react to events in real-time.

СИБИРСКИЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ
SIBERIAN FEDERAL UNIVERSITY
www.sfu-kras.ru

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