

SUCCESS STORY. WIRTSCHAFTSUNIVERSITÄT WIEN, AUSTRIA.



SECURE LEARNING AND RESEARCH

The Vienna University of Economics and Business (WU) was founded in 1898 by the k. k. Ministerium für Cultus und Unterricht as the “k. k. Exportakademie”. At that time, tuition was being given in the following relatively modern fields: foreign languages, economics, business affairs, economic geography, public law, private law and consumer affairs.

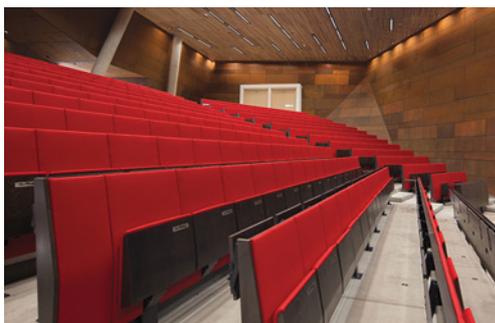
THE CHALLENGE

Due to steadily increasing numbers of students, the WU had to relocate to various sites in Vienna several times in its history. The previous location in Althanstraße – originally designed for around 9,000 students – was already fully occupied when the university moved there in 1982. In the 1990s, the number of students grew further and eventually settled at over 20,000. As a result, in 2009 work began on a new campus in Vienna's second district to the east of the Prater park.

What was ultimately created was a open site with clear spaces and green areas, with a total of nine standalone and very differently designed building complexes distributed across

it. The heart of the WU campus is the Library & Learning Centre designed by the Zaha Hadid design office, which houses central service facilities, banqueting halls and a library, among other areas.

Even during the planning stage of the WU campus, the topic of security played an important role. A viable concept had to be developed, in particular for the large outdoor areas that are accessible day and night, to protect students, staff and visitors on the campus against attacks and thefts, whilst still respecting their personal rights. A further key task of the security technology is visual support for the emergency services in the event of an alarm as well as the securing of escape routes. Design aspects also needed to be taken into account: this means that the cameras should be placed as inconspicuously as possible, and should not in any way affect the overall architectural impression, a tricky task for the installation engineers in particular.



THE SOLUTION

An invitation to tender was launched for the security technology on the WU campus, with Siemens AG Austria ultimately winning out with a comprehensive overall concept which also takes the architectural features into account.

Cayuga was chosen as the video management system; thanks to its flexible and modular design the Qognify solution is expandable and can be easily connected to third party systems. For the WU campus, this was important because all security systems were to be linked and managed via a centralised building management system.

THE RESULT

Since its launch in 2013, a networked video system with several hundred IP cameras has been guaranteeing security on the WU campus.

To minimise the system load, the video images are recorded and supplied via multiple servers that are also protected against failure via a made-to-measure redundancy concept. The live images can be displayed as required on a large-screen system in the WU campus control centre. To permit interaction of the total of 16 different systems (such as fire, access control, video technology), they are linked to one another via the Winguard SiControl building management solution from Siemens. If, for example, a fire alarm is triggered, action plans can be automatically displayed in the control room or in the deployment centre, and live images from cameras in the vicinity can be displayed.

THE CUSTOMER

Johann-Wolfgang Hörthl, responsible for the security department at WU Vienna, and therefore also for the video system, summarises the special features of the video system at WU Vienna: *"The challenge faced by the WU campus was to reconcile the requirements of security and fire protection with protecting personal rights and video data - after all, we operate in the public space here as well as in areas where lots of people are working. Cayuga does both - it seamlessly integrates with building and hazard management systems and at the same time offers numerous features to protect data and privacy rights."*

As the public spaces on the WU campus also needed to be secured, observing the highest possible standards on data protection and maintaining the privacy rights of students, staff and visitors was of paramount importance. In this respect, the software from Qognify offers encrypted communication between the server and the client, and also supports secure connections to the cameras. In addition, sensitive areas can be masked out in the camera image or persons can be made unrecognisable by pixelation; access to the recorded original data is then only possible with the works council being present, for example.

The cameras distributed across the terrain and in the buildings focus primarily on the outer shell, the escape routes and the critical infrastructure. Thanks to specially developed mounting concepts from Siemens, it was possible in many cases to incorporate them inconspicuously into the façade and ceiling structures, thus preserving the overall architectural impression. To offer additional security to students, staff and visitors on the site, SOS telephones have been erected at multiple points on the premises. If an emergency call is sent from there, this triggers an alarm on the Winguard SiControl. In addition, the nearest PTZ camera focuses the column and turns on the live image in the control room. This means the security personnel can immediately gain a picture of the situation on the ground.

Another important aspect when selecting a suitable video solution was the simple expandability of the system to keep pace with potential further rises in employee and student numbers in future as well. Thanks to the modular design of the Cayuga video management software, new camera channels can be integrated quickly and easily into the system. In addition, new functionalities can be added at any time in the form of expansion modules - examples of this include intelligent video analysis or licence plate recognition for managing parking areas.

FACTS

Customer

Vienna University of Economics and Business

Object:

Campus WU, Vienna

Installer:

Siemens AG Österreich

Products:

- Cayuga Infinity X
- Web Client
- Mobile Client

Cameras:

> 350

Requirements:

- Integration with building management system
- Functions to protect data and personal rights
- Easy expandability

