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Epygi Customizes Complete Technology Package for TUMO Center for Creative Technologies

Opened in August 2011, TUMO Center for Creative Technologies is a state-of-the-art, educational facility located in Yerevan, Armenia. TUMO is unlike any other educational facility within Armenia and is privately funded. In order to provide a competitive education through the after-school program to local teens ranging from ages 12 to 18, TUMO is equipped with top-of-the-line computer equipment, software and media creation tools. The students register to become a member, pay a small registration fee, and then have unlimited access to the learning facility. After registering, each student is set up with a coach who helps guide them in determining what area of study they want to pursue. In order to motivate students to continually return to the program, they must earn points to advance to the next level of classes which will allow them access to more software and technology. Students gain invaluable technical skills (2D graphics, 3D modeling, computer programming) and artistic skills (music, drawing and writing). TUMO's focus on software knowledge and education closely relates to Epygi's core corporate values, as the company has always distinguished themselves in the market by developing specialized software.

Providing the Complete Package

At TUMO, Epygi installed a Quadro4x, M32x and a FXO gateway to provide the 86,000 square foot building with a telephony system. Through extensive research and development, Epygi was able to customize a technological solution for TUMO that integrated the telephony system, door controls, security cameras and surveillance system into one monitoring tool. Epygi equipped TUMO with the complete package needed for any commercial building to run smoothly.

Keeping the Campus Safe

Throughout the buildings and surrounding 23 acre park, Epygi installed M&C Technology security cameras in order to properly monitor daily activities. M&C provided the software used for watching the cameras on remote monitors and sending that information over the Internet. The Epygi security monitoring system captures the motion detection events from the cameras and then triggers the corresponding alarms for the security personnel. Each camera records events set off by motion sensors

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and has the ability to store video for at least seven days, allowing the videos to be observed later if necessary. All of the cameras can be viewed on wall monitors in the security room and have split screen capabilities. The Epygi software enables each camera to be viewed by one mouse click on the interactive building map. Cameras are essential for building security, and with young students frequenting the premises, security is a top priority for TUMO.

Epygi Offers Security Options

Additionally, Epygi helped TUMO determine the best alarm system for their facility. Instead of having visual or audible alarm indications, this system sends notifications to security personnel through a mounted wall light and buzzer. When the alarm is triggered, the computer will indicate the exact location of where the alarm went off. It will then dispatch security personnel to investigate the situation. At any time, the security personnel have the ability to silence the alarm.

Like many offices, TUMO has a lot of valuable equipment, and in order to further enhance security, Epygi installed their glass break security system. This system consists of 22 glass break sensors connected to the glass break security and lighting system PC. The PC runs an Epygi-developed application that collects the glass break motion events and sends the reports over to the main security server. The server is in charge of collecting information from IP video camera motion detectors, glass break sensors, motion sensors, door sensors and RFID card readers. Each of the received events are filtered by the security server. If the events are an actual emergency, a notification will be sent to the security monitor interface, which in turn generates an alarm for the security personnel. Security can be notified through an audible alarm, email notification, SMS notification or by phone.

The sophisticated filter security monitor allows configuring of the doors for specific dates and time frames, sensors, RFID card users and much more. The generated alarms may have the following forms: displaying the alarm details in security monitor's user interface, audible alarm, sending email notification to one or many addresses, sending SMS notifications to one or many addresses, making phone call and playing the voice message with alarm details.

Increased Security

The door security system includes the door strikes, door sensors and RFID card readers which are all connected to the door access control (DAC) units. One DAC unit can serve up to four doors, and there are about 50 units throughout the building. The units are connected to the PC via Ethernet and are controlled by an Epygi program. The program configures the door security system, monitors the state of the doors and tracks RFID card usage. Each RFID card is assigned to a specific building personnel or TUMO student. The cards are individually configured so that each person is granted access to specific doors at specific hours. For example, if the card user is a TUMO student, then it would only have access to doors used for educational purposes and only during class hours. "Having the flexibility to customize individual RFID cards has been very helpful, because it enables us to control who we grant access to and where within the building they can go. Not only does it keep individuals safe, but it also ensures the equipment stays safe too," said Marie Lou Papazian, TUMO's project manager.

Another important component of any office building is the lights. Epygi developed its customized software that configures and monitors the entire buildings lights. Through a web interface, any authorized personnel can configure the system, monitor or control the lights. To further enhance the already heightened building security, the motion sensor lights can be activated. Additionally, the lighting system is essential for building security. The system has motion sensors used for lighting control, these same sensors are used for the security system.

Complete Customization

Epygi's ability to create a seamless package of cameras, security and lights provided TUMO with an easy, optimal solution. All of the software created by Epygi makes it simple for each of the different components to easily interact with one another.

About Epygi Technologies

Epygi Technologies, Ltd., a worldwide provider of award-winning IP PBXs and gateways supporting small businesses to enterprise's telephony needs, is a private U.S. company founded in 2000 and headquartered in Plano, Texas. Reliable, secure, easy to install and use, Epygi's products offer users outstanding benefits and an unparalleled range of features at very economic prices. Customers are able to improve their productivity, lower operating expenses, enhance their image, while affording the latest in telecommunications equipment. Visit us on our website, follow us on Twitter, like our page on Facebook and join our Linkedin group.

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