



Success-Story

SeeTec equips networked municipal garages with central video surveillance in the City of Worms

Worms Parking Authority

▶ The requirement

Parkhausbetriebs GmbH Worms provides parking with several garages throughout the City of Worms. The latest addition is the Park and Ride garage at Central Station which was finished in December 2003. All garages needed to be equipped with a video surveillance system for protecting people and assets.

The parking authority, however, was not happy with the existing analog system. The insufficient image quality, the unsatisfying analog image archiving method using VHS (Video Home System, an analog recording system), the cumbersome access to archived image material and the time and cost-consuming

▶ The solution

Internet-connect GmbH, a company specializing in networked-based video surveillance, based in Worms, won the tender for the project. Managing Director Jörg Frödtert recommended to use a network-based video surveillance.

This would allow to fulfill all requirements for the new security solution at once. Network cameras, together with a camera management software, would offer a comfortable video surveillance system. He explained the investors from Parkhausbetriebs GmbH Worms that digital images were of constantly good quality, the surveillance of all cameras could be done centrally using the city's network, and remote system maintenance was low-cost. Also, additional garages could be included at any time in the central surveillance without causing significant additional cost.

The parking authority of the City of Worms decided for the networked-based video surveillance with SeeTec Software in combination with Mobotix cameras. Data transfer and power supply of the cameras are done via CAT5 network cables in the garages, which means that only one type of cable needs to be installed. The City's dedicated DSL line can be used for image transfer from the individual garages. SeeTec-Software „SeeTec 5“ manages the image recording, storage and transmission.

The analog system had low image quality, an unsatisfying analog archiving method and high maintenance costs

maintenance of the system which had been installed separately for the individual garages: These were the essential factors for the decision to find a better and more cost-effective solution.



Project data

Worms Parking Authority

Object: parking garages in the city of Worms

Cameras: 21

Requirements:

- ▶ Integration of existing dome camera
- ▶ Event-triggered recording and picture storage
- ▶ Comprehensible user interface
- ▶ Cross-linkage of 4 parking garages

▶ The result

The first building to be converted from analog to network-based technology in November 2003 was the "Parkhaus am Theater". Due to criminal acts in the garage a reliable video surveillance had become urgent for crime deterrence and perpetrator identification.

The new P & R garage was equipped with the SeeTec surveillance one month later. The solution provider converted two more garages to the digital network solution in February 2004. Since then, one central control station manages the four networked garages with a total of 21 network cameras. An existing dome camera was integrated into the system with a video server. The investment in this camera therefore was not lost and could be incorporated in the new project.

One central control station monitors the four networked garages with 21 network cameras.

Like the central control station, each garage has a server with the SeeTec video surveillance software in the version appropriate to the number of installed cameras. The local data back-up provides secure image storage even in case of an interruption. The software allows the control station to retrieve the data of all garages via network line. In order to store only relevant images and to contain data rate, the recording is event-triggered. As soon as vehicles or persons are within the motion detection range of a camera, the images are saved locally and displayed simultaneously in the control station. By this, at least four days of recordings are stored in an efficient way for each camera. This storage possibility was an imperative requirement for the new system, a requirement which could not be fulfilled by the old analog system.

The intuitive user interface of the SeeTec Software facilitates the guards' work. Depending on personal settings, either all cameras or a selected number of cameras can be displayed on the screen. Images can be sorted by event and/or date and time, helping the guards to find images in seconds.

The system provider internet-connect has taken over the maintenance of the system, which is done from the company's headquarter. All ca-

mera adjustments and software settings can be done swiftly via remote VPN access (Virtual Private Network – secure data connection based on the internet). Costly local service calls are only necessary in case of rare physical problems.

▶ The customer

Parkhausbetriebs GmbH Worms is very satisfied with the new network-based solution. "Since the new video surveillance system was installed, we did not have any failures anymore. Besides the bad image quality, this had been one of our major issues with the old analog system."

"We need to be able to rely on continuous image transmission, especially for the protection of our customers, their vehicles and the installations. With the excellent image quality obtained with the new system we can support the police effectively in the prosecution of perpetrators", says Dieter Holz, Managing Director of Parkhausbetriebs GmbH Worms. "The centralized surveillance via the City's dedicated line provides us with the special benefit of being able to retrieve and analyze all important image data at one place. This has helped reduce our cost for the management of the formerly isolated surveillance systems significantly."

"The advantage of a network-based solution is its flexibility. The system can be extended virtually endlessly"

In the future, additional garages will be integrated in the garage network. Jörg Frödtert of internet-connect is looking forward to the new projects: *"The advantage of a network-based solution is its flexibility. The system can be extended virtually endlessly, my customer can install additional cameras at any time. Or include more garages in the network, without having to fear high costs."*

The products

Worms Parking Authority

- ▶ 1 version of the SeeTec 5 software
- ▶ 21 network cameras from Mobotix, type M1D-IT and M1M-IT

On each server of the parking garages runs a SeeTec slave module which communicates with the headquarters.

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