

## Cheorwon County ensures thorough prevention of accidents and fire thanks to network video. Network video system offers multi-purpose solution for crime and accident prevention, and civil affair treatment.



Organization:  
Cheorwon County

Location:  
Gangwon Province,  
South Korea

Industry segment:  
Government

Application:  
Automated fire preven-  
tion and safety

Axis partners:  
Doowon Electronics Co,  
Ltd., Nineplus Informa-  
tion Technology Co, Ltd.

### Mission

Cheorwon County had great difficulty in monitoring fires that could occur in administrative offices comprising of four city offices and seven township offices. In order to reduce the burden of the officials' line of duty and establish a more efficient and stable security system, Cheorwon County introduced an Axis network video solution and developed an automated fire prevention and safety system.

Cheorwon County had already implemented, and had been using, a fire prevention and safety system consisting of a video encoder and input/output-based hardware manufactured by another company. During holidays and after office hours, the security systems in the Cheorwon County building and in the offices of cities and townships under the jurisdiction of the County operated automatically. The information from the fire sensors and thermal sensors installed to detect any intrusion were transmitted to a monitoring center in the County building. If any fire or intrusion was detected,

the office lights in the relevant regions were automatically turned on and the status of this event would be reported live via the monitoring center accompanied by a siren. The use of different video server and network input/output devices resulted in much inconvenience, including compatibility problems that caused wrong sensor signal outputs between the devices. Even when the fire sensor did not give out a signal, an alarm was often raised in the monitoring center without proper cause. Because of these warnings being triggered by frequent error messages, the personnel were often forced to turn off the input/output devices.

### Solution

In an effort to minimize the budget and maintain stability, Cheorwon County replaced the old system with the Axis network video solution which has an excellent image quality and a stable alarm input/output function.

"The former system had a complex configuration that forced control of the event functionality separately from the video functionality, but now I can manage it through one application with integrated functions, and can only marvel at how simple it is to use."

Cheorwon County official.

Eleven 4-channel video encoders, two 1-channel video encoders, six network cameras, and the Blackhound software application developed by the local Axis application development partner were installed.

Cheorwon County reviewed many vendors' products and selected Axis. Key selection factors included Axis' expertise and experience in network video installations, as well as the high quality of its products. Besides, as the Axis products support the image and input/output functions in just one hardware, installation costs could be considerably reduced and compatibility and easy maintenance were also ensured. The replacement was accomplished smoothly.

## Result

Before the automated fire prevention and safety system was introduced, one or two persons on duty had to be stationed at each office of city and township during nighttime; this was no longer necessary after the installation. Staff who used to work at their own city or township office now take turns working night shift at the monitoring center in the County building and can watch and control the live status of the offices of all cities and townships from Cheorwon County. The fire and accident prevention level has been strengthened because all information can be managed remotely, thus making things more efficient and convenient for the officials and ensuring a more stable environment.

## Multiplied security system, reduced cost and ease of use

Currently fire alarm sensors are installed on the ceiling of the offices of each city and township. If the sensor responds, a warning message accompanied by a siren is generated via the video encoder within the network and the message is transmitted to the monitors in the monitoring center of the County where those on duty can view live video of the affected region. In addition, when an intrusion occurs, the thermal sensor installed inside each office turns on lights automatically so that the intruder can be identified. All of these systems are executed automatically at specified times and are designed to be controlled from the County monitoring center.

A Cheorwon County official stated, "The investment cost to build the automated fire prevention and safety system was significantly reduced due to the simplified configuration and installation compared with the former system. I also believe that the improved stability and excellence of the product maximized the system's efficiency."

"I am very satisfied with the replacement of the equipment. As it contributed to improving the multiple security systems, I am happy to leave the office with piece of mind," he added.



"Because this event-driven surveillance can be executed automatically, the relevant person on duty can just sit back and take a breathe without having to pay the strictest continual attention," says a Cheorwon County official.

