netavis

Holzindustrie Maresch

NETAVIS Observer realizes digital production monitoring with IP video and offers full flexibility for ongoing extensions and adjustments of this installation.

„NETAVIS efficiently modernized our video surveillance system. The installation is now powerful, professional and flexible."

THOMAS CZAFAUREK
TECHNICIAN, HOLZINDUSTRIE MARESCH GMBH

Challenge

The family-run wood processing company Holzindustrie Maresch GmbH was founded in 1928 in Austria. With currently 200 employees, their lumber production covers bark, wood chips and sawdust production as well as the distribution of timber.

At the vast area of the headquarter in Retz, Austria, 50 analogue cameras with CRT displays covered four workspace stations. In various steps, the video surveillance system was upgraded to the latest state-of-the art IP technology, without replacing the existing analogue infrastructure. As the operators are still planning to continuously adapt this installation to new requirements, scalability and flexibility are extremely important. In order to ensure a smooth production flow, high reliability and fail-safe performance of the video management system are also major requirements.

THE VALUE OF VIDEO

Solution

Five additional Full HD cameras were installed. Thanks to the high compliance of NETAVIS Observer, the existing analogue cameras were conveniently integrated in the new system and hardware costs were significantly reduced. Despite difficult lighting situation, dust and extreme vibrations, the cameras deliver flicker-free images of selected manufacturing processes to the prestigious headquarters .
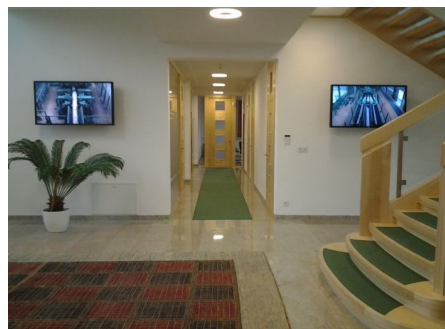
To reduce the latency periods, various cameras deliver their streams in MJPEG. This allows the operators to detect production stops in real-time and to react accordingly. In order to save bandwidth, cameras for physical security aspects deliver their streams in H.264. The individual settings for each camera stream are easily adjusted in the NETAVIS Observer user interface. Since a further project extension, the CarReader number plate recognition automatically grants access to the company premises when a registered truck is arriving.

As it is linked to the inventory control system, the detected licence plates are automatically assigned to the according delivery notes.

Benefit

The redundant server architecture and NETAVIS Software RAID guarantee highest reliability and fail-safe performance. All system data is redundantly stored on two hard disks, whereas the video data is distributed frame by frame evenly on all hard disks. In case of a hard disk failure, the system is temporarily able to fully operate on the remaining disk. Due to the distribution of the frames, the loss of video data is kept to a minimum. HTTPS encryption of client-server and camera-server connections as well as AES encryption of the archive offer additional data security.

With future-proof flexibility and adaptability, NETAVIS Observer supports the ongoing extension of this system. Additional hardware and video analytics modules can be added any time.

SECTOR:	Wood processor
LOCATION:	Retz, Austria
PARTNER:	G4S
SOFTWARE VERSION:	NETAVIS Observer 4, eXtended Edition
SPECIAL FEATURES:	iCAT Video Analytics, ABS Archive Encryption, Software RAID
TECHNICAL DETAIL:	Currently 84 cameras, 12 user 2 servers centralized installation