NATO Defense College enlists Axis for video surveillance.

NATO international military academy selected Axis network cameras and LAMP technology-based AUGENSYS platform for perimeter security.

Organization:
NATO Defense College (NDC)

Location:
Rome, Italy

Industry segment:
Education

Application:
Perimeter surveillance

Axis partner:
Augen Telematica e Automazione srl

Mission

The NATO Defense College (NDC), a NATO military academy headquartered in Rome, decided to install a modern, exceptionally high-quality video surveillance system for perimeter security of its facility. Officially established in Paris in 1951, the NDC was moved to the Italian capital in 1966, quickly becoming one of the most important sites in Europe for training military and diplomatic staff within and outside the NATO region. It has been housed in its current facility since 1999, with a vast floor space that has necessitated increased security equipment.

Solution

The system selected is distinguished by the AUGENSYS platform (with the Ubuntu Linux-based operating system and REDIS for database synchronization) for video surveillance management using an HP server and Axis network cameras, which ensure exceptionally simple use and guaranteed operation at maximum levels.

The equipment includes of 2 workstations and a network video recorder (NVR) able to provide simultaneous rendering for all 20 network cameras positioned within the perimeter at maximum resolution and maximum frame rate.

Result

The solution adopted has made it possible to achieve video surveillance that is extremely reliable due to physical redundancy of the simultaneously active, independently operating workstations, and which is excellent from a qualitative perspective due to the exceptional image rendering and streaming obtained with the Axis network cameras even at night.

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"NDC has been most impressed with the image streaming provided by the network cameras, the redundancy of the system installed, and the easy recording, a feature that enables obtaining precise video recordings simply and quickly."

Ivano Faragli, General Manager of Augen Telematica.

Axis network cameras secure NATO Defense College

The NATO Defense College is one of NATO's most important and prestigious sites. The Rome facility is the College's only location, and its primary mission is to train senior officers and officials of the armed forces of Alliance members, as well as foster Alliance efficiency and cohesion, and serve as a center for study and development of strategic thinking by NATO officers. For all these reasons, it has come to be considered a sensitive site requiring precision video surveillance of the highest quality and performance available.

The video surveillance system installed by Augen Telematica has a three-tier design, consisting specifically of 2 workstations that video record with back-up, and a network video recorder to carry out recording, providing simultaneous rendering for the 20 network cameras on the perimeter, and able to ensure complete, precise coverage of the Defense College grounds; its strong points include device redundancy, network camera independence and ease of use, due to its ability to obtain video recordings simply and quickly. VMS and NVR synchronization is achieved using REDIS (advanced key-value store), a system that ensures system functionality and video recording capability even in the event of disasters that might damage one of the two workstations or render them inaccessible.

The selection of the models employed was dictated by the need to monitor the NDC grounds 24 hours a day, in particular at the new Defense College site, with a more than doubled floor space. The specific network cameras installed are 19 fixed PTZ Axis network cameras that offer superior quality HDTV video and 18x zoom, adapted for surveillance of large areas, providing considerable image detail when enlarged.

These models also permit quick, reliable installation, a real plus when being chosen for institutions like the NDC that need a final product to be installed quickly and precisely with the highest level of quality obtainable. They provide 720p HDTV images conforming to the SMPTE 296M standard; with 1280x720 pixel resolution, maximum transmission speed, day and night functionality and 16:9 format.

The Axis network cameras selected for the installation make it possible to transmit video streams simultaneously in the more fluid Motion JPEG and in H.264, a format that significantly reduces bandwidth consumption and file storage space without compromising quality, as does the dome camera which in addition allows an object to be followed with continuous pan using the exclusive auto-flip function. Another strong point of the network camera is power supply via High PoE (High Power over Ethernet), which simplifies installation considerably because only one cable is needed for both power and video transmission, making it fully integrable with analog network cameras already in place.

The reliability and quality of the Axis network cameras is combined with an HP server that incorporates the Intel Xeon Quad Core processor and the Ubuntu Linux operating system ensuring performance superior to that of competitors, and at the same time guaranteeing complete immunity to hacker attacks and viruses.

"We chose Axis in order to guarantee our important customer absolutely certain operation and exceptionally simple use. The key features are high video quality, reliability and easy installation," said Ivano Faragli, General Manager of Augen Telematica.

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