

Axis guards naval headquarters.

Axis network cameras and LAMP-based AUGENSYs platform employed for video surveillance of the vast Operational Center at Santa Rosa near Rome.



Organization:

Italian Naval Fleet
Command Headquarters
(CINCNV)

Location:

Rome, Italy

Industry segment:

Military

Application:

Perimeter protection,
safety and security

Axis partner:

Augen Telematica e
Automazione srl

Mission

Previously, the antenna facility of the Italian Naval Fleet Command (CINCNV) had a video surveillance system consisting of 70 analog video cameras positioned along its 5-km perimeter. In order to modernize the remote surveillance system, Naval Headquarters decided to update the existing system and add a number of IP cameras at strategic positions.

Solution

The decision was made to adapt existing equipment by integrating it with Axis network cameras, in particular dome models, placed on antenna towers providing a view of the entire area.

Utilization of the Augensys platform provided the best way to manage the camera system, by means of two workstations that both provide VMS and NVR on 2 full HDTV monitors, with shared fault tolerant storage.

Result

The final solution guarantees effective and reliable video surveillance, due not only to the physical redundancy of the two simultaneously active workstations but also to complete virus immunity and resistance to hacker attacks. Other features considered especially important by the operators are the image streaming and the excellent image quality obtained even at night.

“The new video surveillance system meets all requirements for our Operational Center and ensures our ability to respond to any intruder. The dome camera in particular is able to monitor the most sensitive zones by night as well as by day and to focus close up on the areas of greatest interest.”

Marco Bandioli, Commandant of the Naval Headquarters.

Axis network cameras guarantee Naval Headquarters security

The Italian Naval Fleet Command (CINCPNAV), located in the Santa Rosa Operational Center near Rome, is one of the most important operational sites of the Italian Navy, whose primary mission is to defend the national territory and national interests against aggression, safeguard the Euro-Atlantic region and contribute to the management of international crises through participation in operations for international peace and security.

The antenna facility at Command Headquarters, already monitored by 70 fiber-optic linked analog cameras, underwent a video surveillance system renovation, integrating it with new components. The new system, installed by Augen Telematica, includes an AXIS Q7900 Rack and 12 AXIS Q7406 Video Encoder Blades, which in combination can support up to 84 analog cameras and thereby allow multiple streams on each channel, guaranteeing maximum resolution for analog video image encoding. In addition, the system incorporates new IP cameras including AXIS M1054, AXIS M1011 and AXIS Q6034-E Network Cameras, with the latter chosen because it is ideal for outdoor installations of complex video surveillance systems.

This approach has made it possible to reuse existing fiber optics and, by employing the Axis video servers, a new system has been configured able to support up to 90 network cameras, 73 of which at this time are simultaneously active and being used at the maximum resolution possible. The workstations render images of the entire perimeter area monitored by network cameras and at the same time enable the recording of video sequences, at the discretion of the Military Command, which can be stored for as long as 7 days.

There were three primary reasons for choosing Axis, which relate to excellent video quality, particularly at night, product reliability and interfacing simplicity, which is achieved simultaneously for VMS or NVR.

The wisdom of the selection made has already been confirmed early in the system's operation: during the first three years no maintenance operations have ever been needed, due in part to complete immunity to viruses and absolute resistance to hacker attacks. The system has also shown itself to be highly resistant to weather related-problems, and despite the possible vulnerability of the interiorly located video servers to lightning strikes due to the presence of numerous outdoor antennae, no failure attributable to this cause has ever occurred.



“We went with Axis because we think these products are synonymous with high performance and easy installation, attested by no required maintenance during the first three years that the new system has been in operation”, says Ivano Feragli, General Manager, Augen Telematica.



augen