Netkrom

Success Story in Ate, Perú

The project consisted in providing the Municipality of Ate with a wireless video surveillance system consisting of a network of surveillance cameras strategically located in areas of increased travel and trade in the district

Technical Details:

Client:	Location:	Solution:	Website:
Municipality of Ate	District of Ate, Lima - Perú	Wireless Video Surveillance System	www.muniate.gob.pe

Client Description:

> Ate is a residential district that belongs to the province of Lima, it is the second oldest republic founded in Lima.

Founded on August 4, 1821, it is among the largest in the east of Lima, which houses a large number of emigrants from the central zone of Peru, so it stands out for its large share in manufacturing and commercial through small and micro enterprises that have formed in this district.

Location:

It is on the left bank of the Rimac River. It has an area of 77.72 km² and a population of 571.675 inhabitants (estimated in 2004), being the most populated areas of central and local Vitarte Huaycan on the border with Chaclacayo.

Project Description:

The wireless video surveillance system of the Municipality of Ate is comprised of a network of surveillance cameras strategically located in areas of greater traffic and commerce in the district of Ate, the network camera uses a wireless communication medium capable of broadband transmitted in real time all the occurrences and events that these are subject to its control and monitoring center which remotely controls each of the cameras and make the recording of all events.

In the monitoring points, each camera uses a Netkrom MB-ROMB radio with a grid type external antenna in the 5GHz band which communicates with similar equipment installed on a secondary node; each secondary node hostess radio receivers that receive video signals from all monitoring points, on average each secondary node receives information from about six cameras.

All the received traffic in each one of the secondary nodes is sent to the primary node by using a Backhual type point to point link, each link is composed by Netkrom MB-ROMB radios with parabolic directive antennas, these links are characterized by high capacity and high availability.

The primary node is located at the headquarters of the municipality of Ate and aims to concentrate all the video traffic from the nodes, wireless links from nodes to the central node are concentrated in an IP network switch which distributes all the information to the operator PCs and to the recording server in the control center.

The control center is in charge of the management of the entire network, controls all the surveillance cameras, performs the recording of all occurrences and monitors the status of all wireless links.
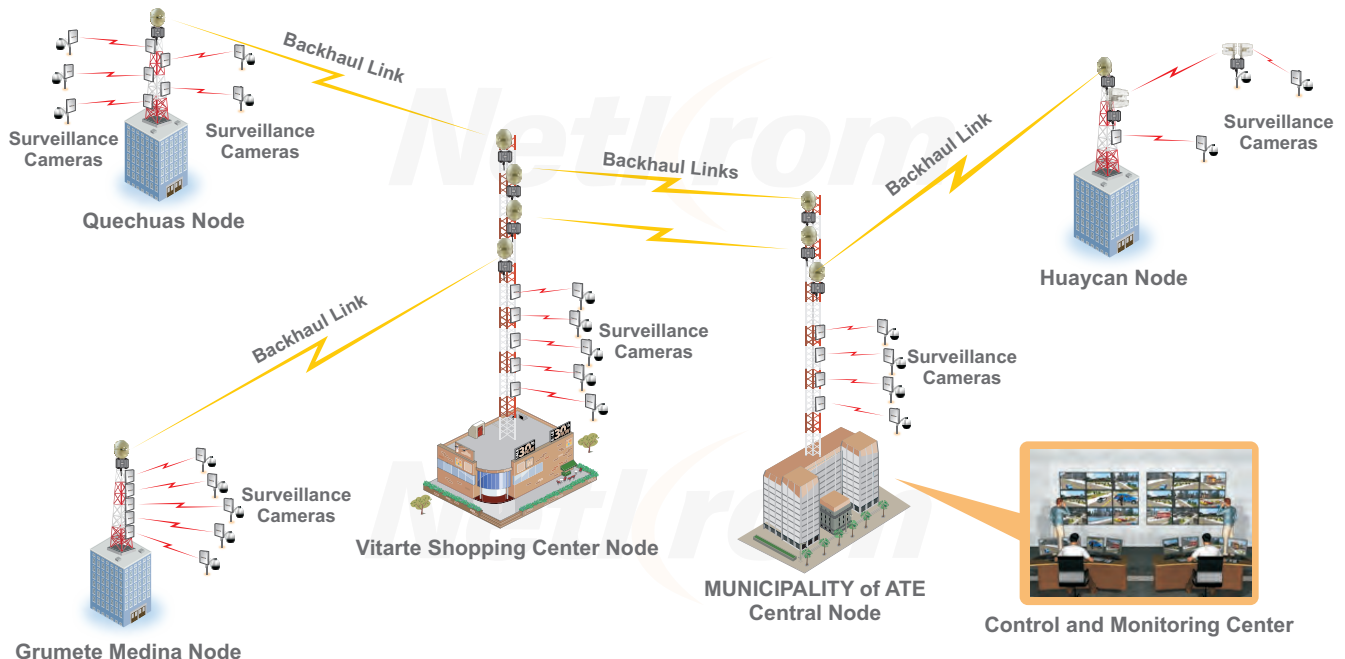
The installed communications network can grow by increasing the number of cameras as well as implementing new services such as voice, video and data transmission as it has sufficient bandwidth to meet future needs.

Benefits:

- It gives the district of Ate a secure and reliable video surveillance system capable of 24 hours operation under extreme working conditions.
- It is a broadband IP communications platform to ensure bandwidth for multiple applications.
- Platform supports multiple services such as voice, data and video.
- Wireless platform enables the rapid deployment of new cameras and services.
- It provides a communications system capable to bring coverage anywhere in the district
- It facilitates the installation and operation of new points of video surveillance in downtown and surrounding areas of the district.

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Success Story Ate-Lima (Perú)

Backhaul Link

Surveillance Cameras

Surveillance Cameras

Quechuas Node

Backhaul Links

Backhaul Link

Surveillance Cameras

Huaycan Node

Backhaul Link

Surveillance Cameras

Vitarte Shopping Center Node

Surveillance Cameras

Surveillance Cameras

Grumete Medina Node

MUNICIPALITY of ATE Central Node

Control and Monitoring Center

Wireless Video Security System of Ate District Diagram