



REMOTE VIDEO SURVEILLANCE SYSTEM OVER WIRELESS PLATFORM

The project consisted of providing the City of Ate with a wireless video surveillance system that consisted of a surveillance cameras network placed in high traffic areas and trade district.

The wireless video surveillance system of the Municipality of Ate is comprised of a network of surveillance cameras strategically located in high traffic areas and trade in the district of Ate, this network of cameras used a broadband wireless communication capable to transmit all the occurrences and events in real time that are registered in the control and monitoring center which remotely controls each of the cameras and make the recording of all events.

TECHNICAL DETAILS

Client:

Municipality of Ate

Location:

District of Ate.
Region Lima, Peru.

Solution:

Remote Video Surveillance System
over Wireless Platform

WebSite:

www.muni.ate.gob.pe

CUSTOMER DESCRIPTION

Ate is a residential district of the province of Lima, it is the second oldest republic founded the city of Lima.

Founded on August 4, 1821, Ate is one of largest cities of Lima, which keeps a large number of migrants from the central region of Peru, and it is notable for its large share in the sector manufacturing and commerce by small and micro enterprises that have formed in this district.

It is on the left side of the Rimac River. It has an area of 77.72 km² and a population of 571.675 inhabitants (estimated at 2004).

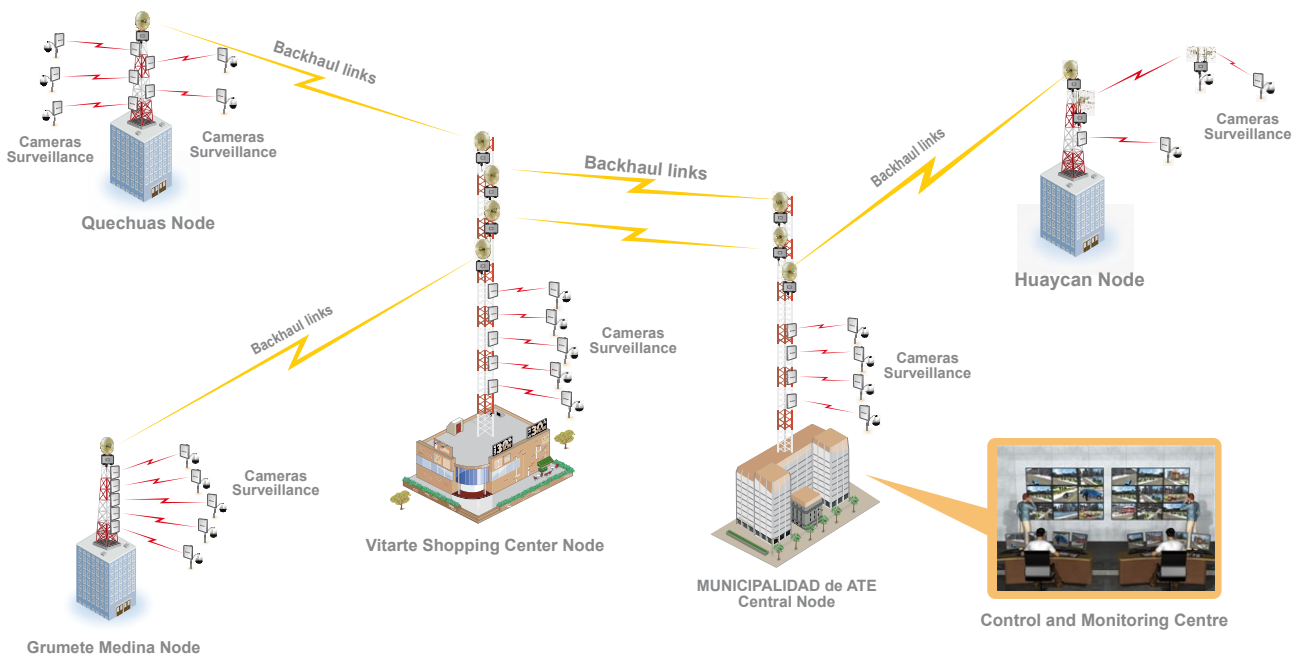
Monitoring points in each camera used Netkrom's MB-ROMB radios as a means of communications with external 5GHz directional grid type antenna, which communicates with a similar equipment installed on a node, each node hosts receiving radios that receive video signals from all monitoring points, on average, each node receives information from 6 cameras. So the bandwidth consumption calculation is not a problem with these equipments.

PROJECT DESCRIPTION

All traffic received on each of the nodes is sent to the primary node using Backhaul links, each link is composed of MB-ROMB Netkrom radios with parabolic type directional antennas, these links are characterized by high capacity and high availability.

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

The control center is doing the management of the entire video network security, controls all the surveillance cameras, recording all the events and monitors the status of all wireless links.



Municipality of Ate
 Location:
 Latitude: 12° 01' 41"
 longitude: 76° 54' 43"

BENEFITS

- A video surveillance system capable of safe and reliable to operate 24 hours a day in extreme conditions.
- An IP broadband communications platform to ensure bandwidth for multiple applications.
- The platform supports multiservice such as voice, data and video.
- The installed wireless platform enables rapid deployment of new cameras and services.
- It provides a communication system capable of meeting their service anywhere in the district.
- It facilitates the installation and commissioning of new points of video surveillance in bordering areas such as downtown district.