IP-Surveillance no longer hindered by limited bandwidth.

Visec® Stream on Demand™ (VSD) developed specifically for Axis network cameras.

Organization:
SANRAL

Location:
Cape Town Sir Lowrys
Pass, South Africa

Industry segment:
Transportation

Application:
Remote monitoring of
national roads

Axis partners:
CSS&I, ITSE

Mission

The cost of bandwidth in South Africa can be somewhat prohibitive when implementing an IP-Surveillance solution. As a result of this, a South African-based systems integrator, CSS&I (Pty) Ltd, using the ASTII Consortium Consultant team lead by Peter Bullock, was tasked with utilizing 3G/GPRS exclusively to stream live video from remote sites to a centralized control room for a specific SA National Roads Agency project. Visec® International was approached to develop a module that could integrate with Axis products and circumvent the necessity for exorbitant monthly bandwidth costs.

Solution

It took the development team 25 days to create a world-first, ground-breaking basic module that offers an ingenious solution for Axis cameras in low bandwidth deployments. Visec® Stream on Demand™ allows Motion JPEG images, refreshed at specified intervals, to be viewed until an incident or event occurs, at which point the user can switch to a live view mode for a predetermined period of time.

Result

The monitoring of Axis cameras in remote sites need no longer be limited by costly or inadequate bandwidth. Visec® Stream on Demand™ allows the user to experience the absolute potency of Axis network cameras and encoders in full live stream, when required, instead of a frustrating reduced stream. Visec® Stream on Demand™ also allows remote real-time access to the recorded video data stored on the internal SD cards of the Axis cameras and encoders, thereby eliminating the bandwidth necessary for offsite storage.

AXIS ®
COMMUNICATIONS

"The high cost or ineffectiveness of bandwidth no longer hampers the implementation of an IP surveillance solution, the application possibilities have become far more extensive."

Gary Scagell, CEO, Visec International.

Saving money without compromising on quality

Visec® Stream on Demand™ provides a unique, cost-effective solution to enable the efficient operation of Axis cameras and encoders in environments devoid of dedicated bandwidth mediums. Gary Scagell, CEO of Visec International, acknowledges that Axis Communications, as the market leader in IP video surveillance, was the ideal match for the development of the software. "We are proud to have developed a revolutionary and yet practical offering for such a highly regarded and innovative provider in the video surveillance arena."

Superb quality, low bandwidth usage

The objective of this project was to use as little data as possible while still maintaining a fully functional video management system. The system deployed adequately meets its requirements to monitor each of the remote sites around the clock, automatically record Motion JPEG images, provide live video streaming and play back remote video archives. The H.264 video stream offers uncompromised image quality as well as higher frame rates and superior resolution.

Simple conversion from analog to digital

The AXIS Q7401 Video Encoder was selected to convert the existing analog dome pan/tilt/zoom (PTZ) cameras, installed at the various SA National Road Agency sites, to a network video stream, thereby transforming the solution into an IP-based video surveillance system. AXIS Q7401 is a high-performance, single channel encoder that is capable of delivering superb video quality and multiple, individually configurable video streams simultaneously at full frame rate in all resolutions. It supports Power over Ethernet thus enabling the unit, as well as the analog camera that it is connected to, to receive power through the data transmission cable, making for an easy installation since no power outlet is needed.

Experienced partners – effective solutions

Visec® is a leading developer of IP video surveillance software, access control and license plate recognition systems. It prides itself on its cutting edge solutions designed with the utmost software engineering standards known today. Visec has offices in South Africa and the United States. For more info visit: www.visecintl.com

CSS&I (Caddic Security Systems & Integration) provide innovative security solutions through strategic partnerships, promoting safety, security and peace of mind. They currently maintain the complete camera system and the control rooms for Strategic Surveillance Unit consisting of more than 280 cameras in Cape Town CBD. CSS&I has also been awarded the Freeway Management System contract for the supply and installation of cameras on the N2. For more information, visit: www.css-i.co.za