KING SHAKA INTERNATIONAL AIRPORT – NETWORK CAMERAS

June 2009

The construction of the new international airport at La Mercy, known as King Shaka International Airport, in KwaZulu-Natal began in August 2007. The US$900 million International Airport includes a 19,500 square meter domestic and international terminal that will be able to support around six million passengers each year. It features a single 3,700-meter runway that will be able to accommodate some of the world's largest aircraft, such as the Airbus A380. It is expected to be operational by 2010, in time for the FIFA World Cup.

The project team required an IP surveillance solution throughout the construction phase where there was a strong focus on project progress, risk and safety. The requirement was to allow the right people to view live information at the right time to keep monitor the project in real time.

IDtek was invited to make suggestions to project team and in order to achieve the optimum solution IDtek persuaded the client to consider an IP based surveillance solution.

The specification team required a reliable surveillance platform to minimize downtime and also a web based solution that could be viewed at various remote

locations simultaneously enabling all internal and external project participants to view, distribute and track project progress.

Essentially the team sought to achieve the following benefits:

1. raise alerts in the event progress related issues materialised;
2. allow for reliable and bandwidth efficient remote access;
3. cater for difficult lighting considerations; and
4. make use of the existing infrastructure.

Together with IDtek the client decided on a solution that essentially comprised a number of strategically positioned Axis 221 network cameras.

The camera was chosen based upon certain rather specific criteria which included its day & night functionality, that it records up to 45 frames per second in VGA resolution (640 x 480 pixels); and that it offered multi-window motion detection.

The AXIS 221 Network Camera provides high quality images under all lighting conditions, which makes it an ideal solution for indoor/outdoor applications, e.g. surveillance of buildings, roads, parking areas, garages, railway stations and airports.

Day & Night functionality

The AXIS 221 features an automatic, removable infrared-cut filter, which enables the camera to provide colour video when there is sufficient light, and black/white video in dark conditions.

The AXIS 221 also supports a number of advanced features that give the camera increased flexibility and capabilities, including Power over Ethernet, video motion detection, pre- and post-alarm buffer, and inputs/outputs for connecting external devices such as door sensors and relays to activate light or close doors.

One of the main reasons the camera was suggested was Quality of Service (QoS). Since different applications were already operating on the same IP network, there was a need to control how network resources were shared to fulfill the requirements of each service. One solution is to let network routers and switches operate differently on different kinds of services (voice, data, and video) as traffic passes through the network. By using QoS, different network applications can co-exist on the same network without consuming each other's bandwidth.

"The 221 Network Camera takes network cameras to the next level with strong functionality that operates in most lighting conditions. It also offers one of the fastest

frame rates currently available - says Julian Thorrold, Managing Director – IDtek Solutions.

The brief was for a high-tech security solution, and IDtek Solutions was chosen for its expertise in delivering network surveillance solutions in similar environments.

IDtek's recent network camera installations included various logistical superhubs in KZN and Isando as well as for Barloworld Corporate Park in Sandton and the Unilever *mother warehouse* in Pietermaritzburg.

Furthermore, the network cameras can be used to audit compliance with site health and safety requirements and even to manage and monitor human resources / subcontractors for general attendance on site.

Company Profile – IDtek Solutions

Protecting people, property, productivity and profit

IDtek provides solutions based on proven technologies that enhance our clients' management of, as well as their staff's contribution to, the reduction of risk-related losses.

The specific requirements for managing clients' risk are addressed with honesty and expertise by our dedicated and energetic team in order to determine the most suitable risk-reduction solution.

Clients are then proactively supported throughout the solution's installation, commissioning and daily operation. In each of these areas, our service-provision is motivated by our enthusiastic desire to earn and maintain the professional appreciation of all our clients.

Commitment to sustaining client relationships is an IDtek priority, founded on our drive to ensure the long-term delivery of tangible risk-management benefits. This is endorsed by a proven track record of success supported by credible references from our clients.

For more information contact:

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