

Case Study:

The project involves the construction of a 40 000-m² warehouse for food and detergent maker Unilever and will incorporate a small office component. The warehouse will serve as the company's regional distribution centre.

The client requires a comprehensive risk based solution with key elements comprising the following technologies: Sagem, Impronet, Bosch Vidos, Caddx, VESDA, and Ziton.

Consulting Electrical Engineer – Hilton McAvinchey of McAvinchey Consulting Engineers.

Specifier - Martin Peterson of M. Peterson & Associates.



Technological measures–

- i. Biometric Control - to ensure that only authorized employees enter the facility and that correct information with regard to work hours is collected for payroll;
- ii. VESDA – to detect any smoke in the facility at a very early stage before fire becomes unmanageable / sprinklers damage stock;



- iii. Camera surveillance – to record movement of people / vehicles in the facility / audit trail of loading / off loading / weighing procedures / visitor movement / health and safety compliance /

compliance with other internal controls / procedures from an accounting point of view / vehicle accidents in loading / offloading areas / perimeter surveillance for intruders / reduce shrinkage

- iv. Intruder detection – all high value items are protected as well as people working after hours / no unauthorized access

Reward

The efficacy of the solution impacts finance, HR, IT, health & safety, and security functions. For instance the finance / HR department needs to be sure that all work hours are recorded correctly – biometric time and attendance, the IT department needs to be sure that the infrastructure being installed meets with client specific standards and that any programs installed are capable of being integrated into other fields e.g. SAP HR, health and safety officer needs to be ensure compliance with all internal safety standards – surveillance of internal safety controls with very early smoke detection in the event of a fire, security needs to be sure that only authorized persons enter the site.

The primary benefit is that the client is now able to control the entire operation from a single control room – with all alarms being directed through a single user interface, with a standard set of follow-up procedures and with consistency in predetermined operating procedures. The technology was selected based upon criteria of reliability, local support and proven track record. The objective was long-term delivery of tangible risk-management benefits as a whole.



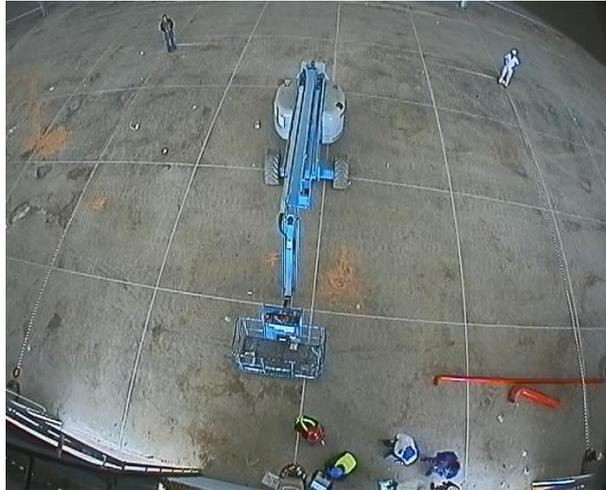
Further particulars the solution

The operators have a floor plan of the entire facility that is populated with graphic images of all devices including intruder detectors, smoke detectors, cameras and access control devices. Icons change colour in alarm condition and require that follow up action is recorded for subsequent audit trail. Operator is also able to use one technology – e.g. surveillance to follow up on an alarm event from other technology – e.g. early warning smoke alarm on the VESDA fire system. In addition certain alarms can be sent through to the building management system (BMS) to direct certain consequences – e.g. shut down of any mechanical equipment that may cause the situation to further deteriorate.

Furthermore, the system performs self diagnostics to notify operator when certain components are at fault.

Unilever put together a project team to oversee the project and involved members of the different disciplines as soon as certain issues impacted their scope of responsibility (e.g. HR, IT, finance, security, legal)

Design and specification was done by Martin Peterson of M. Peterson & Associates and Hilton McAvinchey of McAvinchey Consulting Engineers based upon their combined experience in similar projects previously.



The project progress was measured against an overall construction plan for the entire facility. For instance – VESDA sample piping needed to be installed taking into consideration the flooring and racking program. All cabling needed to follow the installation of the wiring infrastructure – e.g. cable trays and baskets.

MAC Consulting Engineers had involved both IDtek and Electrical Projects on the installation of a similar Honeywell EBI solutions for a PEP superhub in Durban and in Isando.

Switch to/implementation of the new solution

Commissioning December 2008 with the installation of certain equipment in the warehouse postponed until January 2009 once roof is repaired following a storm.



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.

