

NATPET

Case Study - Corporate

Client :	National Petrochemical Industrial Company (NATPET)
Installer :	Abdullah Fouad Holding Co Ltd (Saudi Arabia)
Type of System :	GuardPoint PRO integrated Access Control Solution
Type of Site :	Petrochemical Plant
System Description :	PC based access control within Petrochemical production



Tariq Khalil—Safety & Security Manager -
National Petrochemical Industrial Company.

“NATPET use GuardPoint Pro as a central alarm management platform and to control access to the facility; it is a very simple and powerful solution”



The Client

Established in 1990, NATPET is one of Saudi Arabia’s leading petrochemical manufacturers producing over 800,000 tons of Propylene and Polypropylene per year. These materials are the fastest growing types of plastics used for a wide range of applications. NATPET manufactured products have very high quality standards and are exported all over the world.

Recently NATPET built a 400,000 MT/Year polypropylene plant in Yanbu Industrial City on the west coast of Saudi Arabia. This plant produces a wide range of polypropylene products.

The Situation

NATPET was faced with a common challenge. A widespread and exposed site with over 4km of perimeter to protect. The security risks to this site are very high and a combination of technologies were required to secure it.

The perimeter presented the biggest risk together with protecting the personnel on site. A combination of access control and CCTV were used.

NATPET needed a system that could manage and control total security solution offering a great level of redundancy and flexibility to meet the challenging requirements. Managing communication over such a widespread site with different systems was another difficult challenge.

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Mr Ousama Kabbani - General Manager, Abdulla Fouad Industrial Security and Safety

“We Found GuardPoint Pro to be extremely flexible and offered us many options to make integration straightforward”

“Using our custom built testing facility in Damam, we received great support and cooperation from Sensor to enable us to fully test the solution and provide NATPET with a proven and tested solution prior to installation”



The Solution

The Sensor Access GuardPoint Pro system was installed to work as an integrated access control and alarm management solution.

The site was protected with a perimeter detection system using advance fibre optic technology. This would detect any intrusion on site, the intelligent controllers would then process the signals and report it to the GuardPoint Pro software.

The IC1604 controllers were spread all over the site with each controller monitoring up to 24 inputs All the controllers were inter-connected using Fibre Optic transmission technology, this allowed for a very large area coverage.

GuardPoint Pro was used as an integration platform with the Pelco CCTV system. Commands were sent from GuardPoint Pro to either trigger a live camera or take a dome to a pre-set.

Sensor-Prox readers with keypads were used in this harsh environment as the solid metal construction with back lighting made them ideal. The readers also have optical tamperers so the readers can signal any attempts of vandalism.

GuardPoint Pro was installed using the robust SQL database with replication and backup all done automatically. Using the action and process feature, NATPET were able to utilize the full flexibility of the software to meet their requirements.

Highlights

The Sensor solution provided advance functionality by deploying a 2nd communication bus on all controllers supporting a communication redundancy option. The 2nd bus automatically takes over the function of communication if there was a line cut or failure on the primary bus. The second bus also ensures that all the system reflexes are protected in case of primary bus failure such as triggering a relay to move a CCTV dome.

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The Benefits

By utilizing GuardPoint Pro as the main interface platform for multiple system administration, management became streamlined and coverage.

By installing the IC1604 intelligent controller, NATPET monitor hundreds of inputs on site without the expense of a fully equipped door controllers. This offers full functionality without compromise.

By using the 2nd bus option in conjunction with server redundancy, NATPET are confident that no matter what is thrown at them their security system will cope.

Products Used

GuardPoint Pro Software

GuardPoint Pro access control software - Global Anti-Passback, Escorting, Graphical Maps, Automatic actions and processes, Full reporting, Automatic reports, Day and night mode operations, Customizable user fields.

GuardPoint Pro options; Parking control, Multi-company, Lift Control, CCTV integration, OPC server integration, SQL database.

IC-2000JX

2-door/4-reader access controller with Flash Memory, 8 inputs (expandable to 16), 4 relay outputs (expandable to 64), 10,000 card holders (expandable to 40,000 cardholders), Housed within a 3.5 A 12 VDC Power Supply.

IC1604

I/O controller monitoring 16 inputs (Expandable to 24) and 4 relay out puts expandable to 64. Fitted with 2nd communication bus.

