

REFERENCES



SHELL TUNISIA : HEAD OFFICE, PLANT & BASE CAMP

REMOTE SITES AND DANGER ZONE

Because of the nature of their activity and their proximity to sensitive areas (less than 300 km from Libya), SHELL TUNISIA's installations are facing a wide range of risks : identity theft, theft, terrorist attacks, hostage-takings, industrial risk...

To protect people and property, the Department of Safety implemented technologies and processes at the cutting edge of technology ; The objective is simple : be able to control at every moment, who is on what site and in which zone.

This strategy is based on the implementation of a powerful and ergonomic supervision solution, combined with strong means of authenticating people.

A FEW FIGURES...

- 30,000 barrels produced per day
- 65% of gas production in Tunisia
- The country's leading fuel supplier
- More than 2000 people to identify and protect
- 4 different sites
- Up to 400km from the headquarters

INSTALLED TIL SOLUTIONS

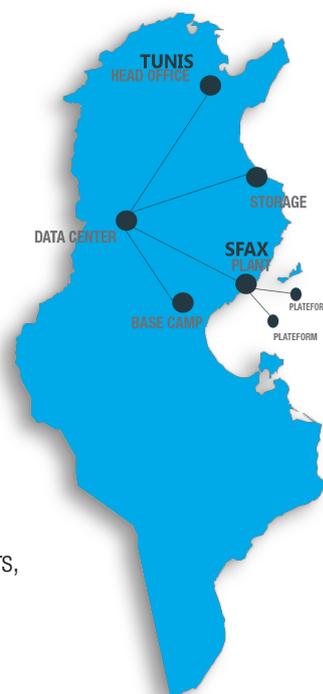
- RFID Mifare+ badges
- 180 RFID EVOLUTION readers
- Including 30 biometric readers
- 15 MOBILIS readers
- 1 MICRO-SESAME server deployed in a data center
- 10 client workstations
- Graphic Supervision
- Synchronization Gateway for badges
- Zone management
- Emergency Plan
- Management of lock chamber
- Anti passback management
- Visitors management

Multi-sites monitoring...

Thanks to the MICRO-SESAME system, each security station located at the plant or at the base camp, communicate in real time with the Head office located in Tunis, nearly 400 km to the north.

Through a single graphical interface, The main security station displays all the access information of all the sites 24h / 24h.

All access authorisations, actions and automations decided at headquarters are instantly applied to each security stations.



...and strong authentication

All staff, whether employees, expatriates, providers, visitors, are equipped with RFIDMifare + badges, secured by encryption keys and graphically customized.

At each site, the mandatory entry point is biometrics.

This system guarantees the identity of the persons and gives access to the areas. Once inside, other means of identification are used.

These internal accesses are equipped with RFID badge readers. However, in order to prevent multiple entries, the «anti pass back» function is combined with single passage detectors (turnstiles or drum doors).

For access by car, at the Sfax plant as at the base camp, visual checks are carried out inside of vehicles sas. The agents are equipped with MOBILIS portable badge readers, on which the photographs of the badge holders are displayed.

Managing flows and visitors

MICRO-SESAME can natively configurate access, authorisations and safe areas. It enables the Safety Department not only to fine-tune the flow of people present but also to know in real time the exact positioning of each person on a site.

This «traceability» is also used to carry out regular reports or to have an history on demand.

A specific application for the management of visitors allows workers to easily accommodate external persons, according to the information pre-entered by the headquarters and verified on the site.

As with employees, each visitor is assigned an RFID badge.

Customized graphically and electrically, this badge allows the access corresponding to its profile, in the dates and schedules defined.

This badge must be kept permanently «exposed», for presentation to the security controls.

Industrial risk

The Sfax plant, which can gather up to 2000 people during maintenance operations, processes gas from two offshore platforms. The risks of fire and explosion are to be taken into account and to be anticipated.

To protect staff in the event of a crisis, specific procedures are applied. MICRO-SESAME includes a support function for the P.O.I (Internal Operation Plan), which allows real-time viewing of the passage of staff to protected areas or gathering points.

This function also assists rescue in the search for missing employees or visitors. Editing lists and trombinoscopes is a real plus.

Base camp

The life camp is a closed place where headquarters employees, occasional visitors, expatriates, providers and other occasional visitors are housed.

This place of life, which includes offices, dwellings, gymnasiums and swimming pools, is also under strict supervision.

Surrounded by an enclosure 4m high for 1m thick, designed to withstand rams trucks, the base houses a large number of areas of retreat.

These closed rooms, located inside the buildings, make it possible to protect during several days in the event of attack or hostage taking.

The access to the base camp, for those arriving by walk, is carried out via reinforced turnstiles and biometric reader.

The vehicles must enter a lock chamber, in front of an anti-ram portal in accordion. In this secure space, an agent will check the identity of the passengers with his MOBILIS reader and will also inspect the vehicle.



Drum Turnstile: Full height, it prevents unauthorized access or exit, without the need for human supervision. It also ensures uniqueness of passage



Anti pass back: the badge must pass through an output reader before being accepted again by an input reader.

The badge can also not be used twice within a programmable time interval



A security guard controlling the identity of the passenger thanks to the portable badge reader MOBILIS



Employees gather at the assembly point, at the outbreak of the Internal Operation Plan