ESSEN

Essen RFID

CASE STUDY

Manufacturing Industry - Plant site
CAR PARKING MANAGEMENT PILOT
through IBM as Integration Partner

Bharat Petroleum

An industrial premises that needed an automated solution to manage multiple entry/exit points while enhancing security. Implementation of next-gen RFID-enabled remotely-controlled solutions results in increased efficiency and enhanced security.

Company:
Bharat Petroleum, Mumbai, India
Facility: Plant site

Challenge:
- Multiple entry/exit gates at factory premises which contains a large parking area that has capacity for many vehicles.
- Monitoring access to prevent unauthorized vehicle entry.
- Multiple entry/exit gates on premises require integrated vehicle management across all gates.
- Monitoring vehicle location within the parking area.

Proposed Solution:
- Essen RFID's Car Parking Management System (CPMS) detects all vehicular traffic into and within the site parking area.
- Essen RFID's Xtenna™ Reader/Antennas deployed at all gates and at strategic locations within the parking area, along with vehicle tagging with Essen RFID's Parka™ tags. Vehicle particulars and ownership details are transmitted to a central back-end database for verification.
- Transfer of all data in real-time results in automated functioning, streamlined queuing management and instant knowledge of current parking status.
- Automated messaging to back-end server and interlinking with plant's employee management systems ensures that the RFID tag ceases to function after an employee's vehicle exits from the premises.

Realised Benefits:
- Vehicle tracking in real-time on site
- Streamlined entry/exit
- Remotely controlled and managed 24x7 service
- Process makes highest level security possible

TECHNOLOGY

Solution:
EPC Gen2 compliant vehicle tracking system

Tag Type:
Parka™ UHF Passive

Reader/Antenna:
Xtenna™ Long Range

Read Range:
17 metres (50 feet)

Method:
Multiple Tracking via Integrated Reader/Antenna modules
  Number of modules: 4

Integration Platform:
  RFID Middleware: Xtenna™ Studio
  Application: Essen RFID's CPMS
  Database: SQL Server 2005 Exp. ed.

Tag Manufacturer/Supplier:
Essen RFID

Reader/Antenna Manufacturer:
Essen RFID

Systems Integrator:
Essen RFID

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