



Environment Refresh

case study

Business Benefits

- 90% decrease in resort deactivate cause by system failure
- Effective access control and compliance with public security regulations
- 30% increase in income by securing access and eliminating fraud
- 20% decrease of attendance service duration
- Decrease in costs of trainee and daily usage costs

RFID Water Park Management System

Neubloc was tasked with creating a new resort management system for a large water park in Europe. The existing system utilized a simple alphanumeric terminal for customer access to the resort. The system was not efficient and did not allow the resort to properly manage access to the water park. The project required that we develop a solution to easily identify resort memberships as well as daily single-visit customers to improve security. The system had to manage levels of access to ensure only customers got what they paid for. In addition, we needed to simplify overall maintenance operations.

System Features

- Fully automated customer registration, access card management, customer flow control
- Ticket fraud control and fast customer service at the entrance
- Customer payments for the time of resort services and equipment effective usage
- Flexible pricing policy depending on services, day of the week, part of the day, special offers etc.
- Complete registration of all events in the system
- Many different type of reports
- Simple user interface for employees and customers
- Automatic system backup
- Chip cards for resort services and equipment usage combined with other services: car parking area, bar and restaurant, etc.

Technologies Used

- Application Server – Suse Linux Server, Postgre SQL database
- C, C++, Perl, Assembler PIC, ARM8
- Access terminals based on NC technology
- Microcontroller's devices including specialized microchip card readers, RFID readers, access gates control

