

LEGIC[®] Case Study

AUDI selects contactless multifunctional LEGIC[®] based smart card for employee IDs

A uniform, multifunctional employee ID which covers all internal applications – from parking, access control, time & attendance, IT access, cashless payment in the cafeteria and vending machines, to biometrics for high security applications.”

For AUDI this dream has already become reality. AUDI has introduced a LEGIC based, multifunctional employee ID for the entire Group with great success, and now uses the advantages of the highly secure, flexible Smart Card technology platform from LEGIC in all parts of the company.

Over a period of years, AUDI employees had collected as many as six different cards and IDs. The overloaded card systems were not flexible and were no longer economically justifiable due to maintenance costs of multiple ID systems.

The requirements for the new ID technology were accordingly high: Important selection criteria were multi-application capability, integration during ongoing operation, flexibility, and scalability for

continual set up/upgrading, security against tampering and ease of use and maintenance.

“We decided on the contactless Smart Card system from LEGIC because the technology platform fulfilled our stringent requirements. Especially convincing was the security package with the Master-Token System Control that provides substantially more security than systems protected by passwords.”

Today, well over 100,000 employees enjoy the advantages of the uniform, LEGIC based, multifunctional Group ID. Over 2000 terminals have been installed just for access control, time and attendance and cashless payments.

The real economic benefit is that a level of security has now been achieved that does not even allow major losses to occur in the first place.■



AUDI employees had collected as many as six different cards and IDs.



Over 2,000 terminals have been installed throughout various production locations including design and manufacturing.

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LEGIC[®] Case Study

Tropical Islands waterpark relaxes with LEGIC[®]

The Tropical Islands leisure complex in Germany is a true tropical paradise with rain forests, lagoons, a beach and the sea. With space for over 7000 people they are open 24 hours a day, every day! Built in a Zeppelin hanger it is the world's largest self-supporting building so large that the Statue of Liberty could stand in it.

The intention is for guest of Tropical Island to enjoy their stay from start to finish. Management looked for a simple and convenient payment solution. It quickly became obvious that LEGIC was the right choice. Contactless technology, security, absolute reliability and simple billing were at the forefront.

Guests are given a "Tropical Islands Pass" when they enter the resort. Cashless payment systems have been integrated at all points of sale. Tropical bars, souvenir shops, vending machines and restaurant were equipped with LEGIC based readers.

Because of the 24-hour operation it was of particular importance to management that payments be

processed easily and above all securely. Charges made to the card are completely reliable and guarantee correct billing. Not until a guest leaves are all their expenses billed, including the price of entry.

The only thing guests needs to carry around is the Pass card to pay for food and beverages. For those wishing to rent a locker a LEGIC based water proof wristband is used for securely locking away personal items in changing room lockers.

The wristband functions as a contactless key. Highly secure encryption algorithms ensure that a locker can be opened again only from their wristband for securely locking away personal items in changing room lockers.

Guests do not need to worry about the security of their cash or belongings all day long, and instead can concentrate solely on enjoying themselves. ■



Built in a Zeppelin hanger the Statue of Liberty can fit inside



LEGIC helps guests enjoy a day at the beach and other resort amenities

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LEGIC[®] Case Study

Swiss Re ensures security with LEGIC[®] technology

Swiss Re is a leading reinsurer and the world's largest life and health reinsurer. The global company operates from 70 offices in 30 countries was established in 1863. Their distinctive form of the 40 story 30 St. Mary Axe building is in the center of London's financial center.

Controlling access to and within the Swiss Re Tower is of highest priority and LEGIC's 13.56 MHz contactless smart card technology was chosen to meet their stringent security policy. Not only did Swiss Re install 200 LEGIC based access control readers a new networked digital CCTV system was added.

As well as Swiss Re staff, as other tenants come into the building, they too will be issued with carefully controlled smart ID cards permitting access and egress to individually designated doors and areas of the tower. LEGIC was selected since the contactless technology has been designed to provide multi-functionality and encrypted data transmission, delivering the highest levels of security, together with significant

advantages in terms of convenience and cost efficiency.

Worn on a lanyard around the neck or clipped to a skirt or jacket, the individual smart card ID requires little effort to use. It takes less time than retrieving a card from a pocket and passing it through swipe card slot with no wear and tear on either the cards or the readers.

This means that Swiss Re's LEGIC system will deliver secure access control for longer with less need for any field maintenance.■



The impressive Swiss Re building is the fifth tallest in London and has won many architectural awards.

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LEGIC[®] Case Study

Swiss nuclear power plant powers up with LEGIC[®] all-in-one card

The Gosgen-Daniken nuclear power plant was the first Swiss nuclear power plant of the 1000 megawatt class to go into commercial operation in 1979. Today, its annual production is almost 8 billion kilowatt hours providing 15% of Swiss power consumption.

Above average results have been achieved at the plant both with regard to availability and security, thanks to the multitude of modernization projects which continually update the plant. An integrated security computer system, together with the contactless LEGIC Smart Card technology, plays an important role in this.

Originally chosen for time management of the staff as well as for the gas pump station management decided to add access control to their existing LEGIC all-in-one-card. 50 new readers, as well as around 700 permanent staff credentials and up to 1000 additional credentials for 3rd parties are now being used. Each person allowed access to the plant must carry a contactless credential including over 20,000 annual visitors.

"We have had very good experience with LEGIC. It considerably simplifies the complicated identification process for our staff. Using a single card, you can not only determine the amount of time worked and make cashless payments at the gas pump on premise, you can also identify yourself at the entrance. We are planning on adding new applications such as cashless payment at the cafeteria and vending machines. LEGIC technology also provides the foundation for biometric identification required by regulatory authorities

Another really vital reason why we decided on using LEGIC was the Master-Token System Control. It allows us to independently design and run our safety and control system at the highest level and provides much more security than simple password-protected systems. Gosgen provides a classic example of how versatile the LEGIC all-in-one-card technology is. ■



Gosgen-Daniken produces fifteen percent of Switzerland's power requirements.



The Plant receives over 20,000 annual visitors who must carry a LEGIC credential.

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LEGIC[®] Case Study

Split Kaštela Airport takes off with LEGIC[®]

The Split Kaštela Airport is celebrating its 40th anniversary as this impressive one-runway airport supports over 1 million passengers and 382 employees.

In 2005 the Airport implemented a new time and attendance system. Both hardware and software were changed. Previously, the old DOS-based software system was used and the hardware was incorporating barcode-based readers.

In the past employees had to carry a number of ID cards for various purposes. To minimize the number of ID cards all this various data was written to a LEGIC smart card. The contactless LEGIC smart card now also serves as an official badge (with a picture of an employee) and each employee has to carry it in a visible place. There are 600 cards in circulation.

The new system is based on contactless LEGIC readers and smart cards. There are two LEGIC readers installed inside a building at the entry for the employees and one in the cafeteria.

The data from registrations flow to the Time&Space software by Špica International. As the name Time&Space implies, the software incorporates time & attendance as well as access control modules, video surveillance and visits management.

Currently, there are two applications running on LEGIC. The first one is for registering time and attendance of employees and the second one is used as means of payment for food at the airport's cafeteria. Soon, another application, access control, will be implemented with LEGIC.

Ever since the launch of the new system there were no hardware or software faults detected. Since the introduction of LEGIC smart cards the cards perform flawlessly regardless of the conditions. ■



The Split Kaštela Airport saw over 1 million passengers in 2005.



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LEGIC[®] Case Study

Port of Dover experiences smooth sailing with LEGIC[®]

As one of the most important gateways in and out of Great Britain, the Port of Dover needs an effective and secure access control system to support border security. The original means of access control were passes, which were presented to scanners at the respective gates. The Port planned to expand but it quickly became clear that the existing system was not a viable option plus spare parts became difficult to find.

The project leader made a list of selection criteria: noticeable improvement in security, flexibility of upgrading, integration during ongoing operation and ease of use and maintenance.

The Dover Harbour Board chose the contactless Smart Card technology platform from LEGIC because the system fulfilled everyone of the stringent requirements. LEGIC provides an integrated, consistent and highly secure platform for modern authorization management for everything from entry, time acquisition and cashless payment to biometric high-security applications.

The LEGIC Master-Token System Control (MTSC) concept was very persuasive to the Harbour Board. The MTSC enables complete control over issued cards, applications and the entire installation.

The Dover Harbour Board was very pleased with the new LEGIC based access control system. Current costs continue to drop, administrative reports are easier to understand and maintenance is simpler, faster and more cost effective. The ease of use is especially great due to the contactless operations within a comfortable scanning range.

The Port is expanding the system to other areas of the port, such as parking lots, access to transformer substations and cranes. Even the ferry operators are showing interest to implementing the LEGIC based Smart Card system. ■



The Port of Dover's main customers are the Ferry Operators



The LEGIC based system provided "noticeable" improvement in both restricted and controlled zones

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LEGIC[®] Case Study

The New Porsche Arena keys in on LEGIC[®]

A one of a kind events center in Germany is currently being created that allows the use of two connected halls to form one giant hall.

Here for the first time, it will be possible to use two connected halls – Hanns-Martin-Schleyer-Halle and the new Porsche Arena – either individually or together for all types and sizes of events. While the existing hall has been extended to a seating capacity of more than 8000, up to 7500 more seats will be available in the new Porsche Arena.

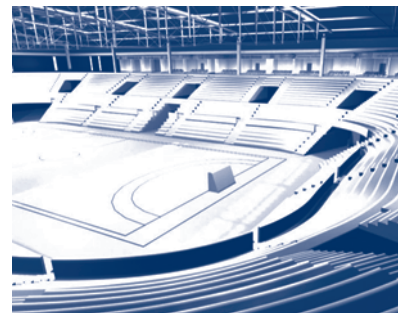
In order to manage the two linked events center jointly via a locking system, it was necessary to work out a new concept and also to install a new locking system in the older hall.

The solution chosen from CES was a combination of a mechanical and electronic locking system. The outside doors and all areas relevant to security were fitted with electronic cylinders and wall terminals incorporating LEGIC transponder technology. The other doors are secured

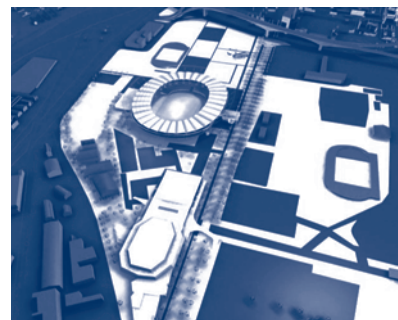
with about 500 mechanical cylinders in the turnkey system.

“No key leaves the building” is how Boris Zellner, describes the individual locking system concept. All staff, service providers, and authorized visitors, have received a key with a LEGIC chip with which they can only lock the entrance door. They then use their PIN number to open a key depot via an input keypad in order to take out their key there. With this mechanical key incorporating a LEGIC transponder, they can then open all mechanically and electronically secured doors assigned to them in the locking plan – apart from the entrance doors. If the key is not returned within the set time limit, an alarm signal is sent out.

This basically eliminates the security threat posed by lost or stolen keys, because the LEGIC keys can be blocked at any time. ■



The new Porsche Arena uses LEGIC for access control.



The one of a kind event center allows combination of two halls to accommodate any size event.

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LEGIC[®] Case Study

Phones International calls LEGIC[®] for innovative facility management solution

Phones International is one of Europe's premier wireless solutions and distribution organizations. When they moved to a new building they wanted a "high-tech" solution for a number of Facility Management applications including: access control, parking garage access, cashless vending and a cashless restaurant.

Phones International selected LEGIC's all-in-one-card solution to control staff and visitor movement throughout their new location as well as access to the company parking garage. In addition, the cards could also be used in the company's unique Deli restaurant and for drinks/snacks from the vending machines.

The cashless vending and cashless restaurant facility is great for everyone. For the employee – no need to carry cash to work. For the catering staff – no coin counting, bagging and removal of heavy loads of mixed coinage. What is spent on each person's card is deducted each month from their salary. Phones International even contributes \$40.00

per month toward food and drinks for each employee.

Of course security is a serious consideration. Should an employee lose their card, the account can be frozen until a replacement is issued. Employees are able to check on the value on their card through the company's intranet.

The overall benefit is the integration of multiple functions – access control, parking garage, PC log on, Deli restaurant and vending – using only one company card. ■



Phones International's new building taking advantage of LEGIC's multi-functional smart cards.



Cashless vending means no need to carry cash or count coins.

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LEGIC[®] Case Study

Northstar on Lake Tahoe grabs air with LEGIC[®]

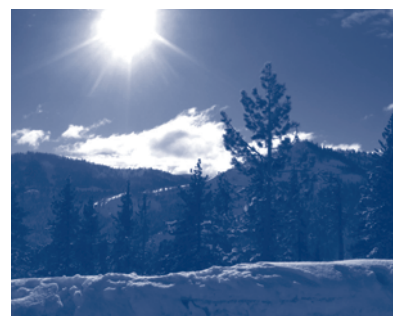
Northstar on Lake Tahoe is a year-round resort situated near the North Shore of Lake Tahoe, approximately 200 miles from the San Francisco Bay Area. The 2420 acre resort features 2280 vertical feet of downhill terrain accessed by 17 lifts, extensive snowmaking system, a cross-country center, Village mall with shops and restaurants, on-site lodging and summer activities including an 18 hole golf course.

Northstar on Lake Tahoe belongs to Booth Creek Resorts, a private company employing 6400 people. Booth Creek Resorts is comprised of six giant winter sports resorts in the United States, with a total of 75 ski lifts and 2.2 million visitors annually. With its excellent snow packed trails and superb quality of service, Northstar is one of the top 30 ski resorts in North America.

Northstar recently installed new high-tech family lockers from Gantner with integrated ski boot heating and ski room lockers all based on LEGIC smart card technology.

The locker locks are battery-operated and operated via LEGIC data carriers (credentials) integrated in a user pass, with each family member receiving their own card for family lockers. The LEGIC based locking system has proved very popular among Northstar guests thanks to their ease of use, and will be supplemented next winter by an electronic access control system for access to the ski room.

The entire ski storage and rental system was provided by Snowell USA who has its origins on the Austrian ski runs. The largest of the ski rental stations in North America, which now number 100, is the one in Northstar with 4000 pairs of skis and 1000 snowboards. ■



Over 2.2 million guests enjoy Booth Creek Resorts



Secured storage lockers also dry and disinfect boots.

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LEGIC[®] Case Study

London Tube Line runs with LEGIC[®] for secure access & cashless vending

Tube Lines, responsible for the maintenance of the London Underground infrastructure, recently decided for the highly secure and flexible LEGIC smart card platform for their new multifunctional employee card. These include secure ID, access control and cashless vending.

With 2500 employees, Tube Line is responsible for 215 trains, 129 stations, 2,395 bridges, 208 miles of track, 227 escalators and 71 elevators. Tube Lines operates some of the world's busiest railway stations that provides travel for 600 million passengers annually.

A key requirement for Tube Lines was the introduction of a single multiapplication card for photo ID, access and cashless vending (something not offered by the previous Proximity system) and enhanced card-loading facilities.

Tube Line upgraded its security system and replaced 148 Proximity Readers with LEGIC based contactless smart card readers. The new LEGIC based card also allowed Tube Line to bene-

fit from cashless vending. "Not only did we increase security we provided peace of mind for card-holders, as lost cards no longer meant lost cash."

Employees are able to load value to their ID/access/LEGIC smart card with cash or with credit/debit cards. Full audit history and a mini statement are also available. The LEGIC card is accepted at all point-of-sale areas including the Restaurant, Coffee Bar and in all Vending machines on site. A separate second "purse" was of key importance in effectively managing the catering business.

The ease of implementation of all functions was made possible by the flexibility of the LEGIC contactless smart card system. ■



600 million Passengers utilize the Underground annually



LEGIC smart cards are used in access and cashless vending for over 2500 employees

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LEGIC[®] Case Study

LOGISTICS WASH cleans up with LEGIC[®]

LOGISTICS WASH is a modern, high-performance, service-oriented operator of carwashes for commercial vehicles and passenger cars. They will be present nationwide at locations near major traffic junctions over the next few years.

With state-of-the-art washing technology and an ingenious service concept, these car washes clearly stand out when compared to previous concepts. LOGISTICS WASH installed a payment and monitoring system based on LEGIC transponders used for operation of the various carwashes.

LEGIC based wash cards are activated via a reader at the manned cash register and the data are transferred directly to the PC register for charging.

Not only cash and credit cards payments, but also the extremely high-turnover fleet cards used in this sector, such as the ESSO card, are naturally accepted.

In addition to the one-time wash cards, customer cards and rechargeable prepaid debit cards

with a CASH segment are also used.

To prevent tampering, a photo of the vehicle is also taken during every wash and assigned to the data record stored in a SQL database server that stores all transaction data.

Thus with the LEGIC transponder cards or key fobs, it's not only the "inner" values that count today but how clean it is outside. ■



State-of-the-art washing technology based on LEGIC's smart card technology



Buses, trucks, and automobiles are all welcome at LOGISTICS WASH.

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LEGIC[®] Case Study

It's a walk in the park for Griesheim Industrial Complex

The Griesheim Industrial Park is home to over 30 companies from a wide variety of different industries with a total of 1500 employees. The current focus is also on companies in the chemical, plant protection and carbon/graphite industries.

In 2001, a new design was planned for an integrated pedestrian and vehicle access control system. The gate entrances and barrier systems were also to be rebuilt or expanded in some cases and consideration had to be given to bicycle traffic.

It quickly became clear that only a few companies could completely meet these special requirements. The new access control system with gate and barrier systems using both short and long-range antennas where combined with LEGIC identification credentials.

In addition, the industrial park also uses an ID creation system so that both the IDs for employees and for visitors can be created directly at the visitors entrance. In this control center all system messages can also be

monitored and each individual barrier and door can be opened by remote control via a graphic user interface.

According to the Head of Security, "there is a particular advantage in the fully automatic processing of all pedestrian and vehicle access in the system. In addition, the fact that the IDs cannot be lost was evaluated as very positive. As soon as a visitor leaves the grounds, the ID is kept at the point for separating persons or at the barrier by motorized collection readers.

An expansion of the system with the visitor management module is currently being planned, and work has started to use the LEGIC IDs for cashless payment at the company cafeteria.■



The Industrial Park is home to over 30 companies including chemical manufacturing



Fully automated pedestrian and vehicle system can be remotely controlled by security staff

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LEGIC[®] Case Study

PricewaterhouseCoopers banks on LEGIC[®] for new contactless corporate ID card.

PricewaterhouseCoopers provides global solutions in the fields of financial accounting, audits, management and financial consultancy. PwC characterizes quality as individually meeting each one of its clients' needs, and in providing optimum working conditions for its employees, which ultimately benefits its clients.

Round-the-clock access control and security

As a global organization and due to the highly confidential and urgent nature of its services, many employees need to be able to enter their workplace 24x7. Using a single contactless corporate ID card, PwC employees enter the building during the day via the main entrance. After hours, fingerprint biometric readers are used. Once in the building, ID cards are used to open turnstiles, elevator doors and specific department doors.

PwC even required that ID cards be used to electronically reserve one of over 1,064 workstations, and to operate the new office automation system called "Follow & Secure." PwC installed 60 of

these leading edge multifunctional devices that print, scan, make copies and send faxes. Print jobs may be called and actuated at the printer device only when that specific employee presents their credential.

Employee ID cards are also used as e-payments to pay for food in the cafeteria and at vending machines, a well-known application made available on a LEGIC card.

LEGIC's contactless all-in-one-card technology was the one simple solution that brought all of the complex demands together for this dynamic and forward thinking organization.

Only good experiences

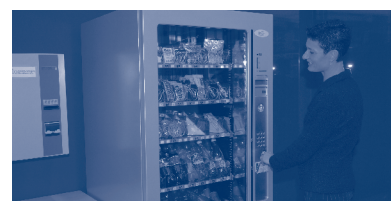
Corina Gerber emphasises: "We are very pleased with the new systems and we would choose LEGIC again!" ■



Biometric identification allows for 24x7 access.



PwC's "Follow & Secure" office automation system protects confidential information.



ID card is used as an e-payment for vending machines.

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