

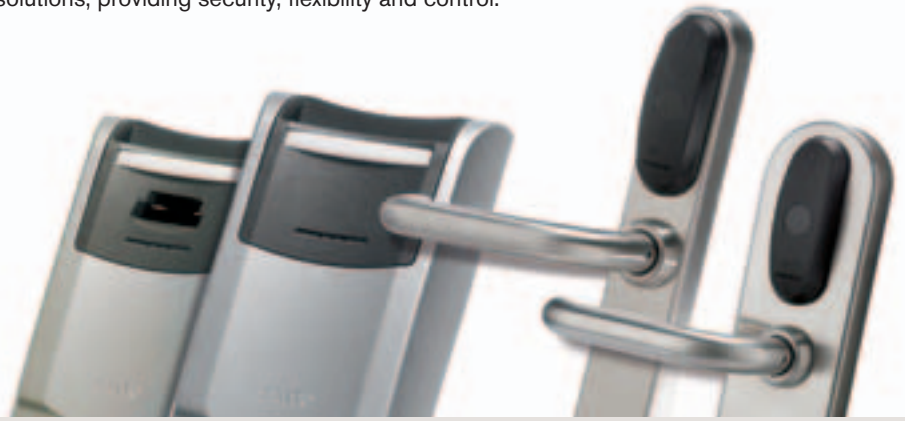


The Virtual Network Company



## introduction

Welcome to the world of intelligent locking solutions, providing security, flexibility and control.  
**Welcome to the world of SALTO.**



In today's fast moving and constantly changing world nothing stays the same for long. New working practices and new employees mean security too has to continually change and evolve to keep pace. As a result buildings and workspaces need to be flexible and adaptable, ready to incorporate new technologies using stand alone door units with real time on-line systems that are inspiring to use, simple to install and able to work with existing IT networks.

SALTO is able to offer all this and more. We are the selected access control option on over 300,000 doors, on more than 3,500 projects in over 52 countries. The power of the SALTO Virtual Network (SVN) allows people to work wire free enabling them to manage their key control requirements efficiently, flexibly and cost effectively.

Find out more about SALTO and our commitment to supply the access control market with a totally user friendly, stand alone system that will provide any building with the flexibility it needs to function safely in an ever changing and demanding security environment.

Jump with us into the future and make your access control problems a thing of the past. SALTO is tomorrow's technology that's here today.







## What can SALTO do for you

Whether you manage a hotel, university, airport, hospital or corporate building, and whether you need to control 6 doors or 64,000 doors, you need an access control partner you can rely on.

Making the right choice will allow you to focus on what you do best - running your business - safe in the knowledge that you can relax the building's security is taken care of.

Almost all of today's buildings have a need for some type of access control system. However, one of the main problems with building management is that traditional access control has always been applied to peripheral doors or other sensitive access points – with the remaining doors secured by conventional mechanical locks.

This has one major problem - key control.

Typically a great deal of attention is given to choosing the actual method of physical protection for a door, the type and style of lock for example, but the security of the key itself is often neglected. However, if a key is lost or stolen, considerable effort is often involved in replacing the locks in all or part of the building. This is time consuming and expensive.

### SALTO can help.

We've revolutionised the problems associated with key control with the SALTO Virtual Network (SVN). Hard wiring an entire building for a fully on-line controlled system can be very costly but with an access control system such as SVN, the perfect balance between cost and control is achieved. It uses distributed intelligence both in the lock and in the key card to allow users to manage their access control requirements in a secure and comfortable way.

It eliminates the need to replace locks when key or code security is breached due to the loss or theft of keys or codes and can seamlessly integrate with an existing IT system to allow key cards and locks to be updated, restricted or deleted remotely.



### The Best of Both Worlds

Imagine being able to control access to your building with no expensive wiring or WIFI infrastructure needed. All your locks communicating with a central PC by using the key cards as their network!

This is done by means of a few strategically placed on-line access readers that also serve as data transporters. It allows security managers or other users to easily monitor all their main access points and all their interior doors too and thanks to its audit trail capabilities enables them see exactly who was where and when.

Simple, secure and your key control problems eliminated. This is what SALTO can do for you.

A totally user friendly, stand alone access control system that provides any building with the flexibility, security and convenience needed to operate safely in today's world.

That's why over 3,500 customers including some of the world's top universities, corporate buildings and healthcare providers have selected SALTO to deliver their access control requirements. Universities such as Oxford and Cambridge in the United Kingdom, corporate buildings like T-Mobile HQ in Austria and RTL Television in the Netherlands and the French Parliament in Paris have all chosen SALTO thanks to our customer focused and proactive attitude. Whatever they wanted, almost always our answer was 'Yes, we can do it'.





## System Overview

If you are looking for protection from uncontrolled access, SALTO can deliver the perfect solution, tailored to your exact requirements to provide you with all the security, convenience and control you need.

### How can we do that?

Our state-of-the-art electronic locking systems offer flexible and functional access control with a wide choice of software options. Our access control systems are designed to work in a wire free environment so there is no need to hard wire the building, allowing you to keep your original doors and locks in place. This makes installation fast, self contained and straightforward.

### SALTO is the technology leader in contactless RFID

With SALTO you have the freedom to choose from a broad range of ID carriers including iButton touch keys, contact smart cards or several proximity RFID technologies.

For over three years SALTO has been the market leader in incorporating 13.56 Mhz contactless RFID carriers into its access control system.

Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass, Picopass and the new cell phone based Near Field Communication (NFC) technology, SALTO allows customers to use their existing RFID cards and NFC cell phones as ID carriers for operating their SALTO controlled doors.

### The result

An access control system that uses distributed intelligence in both the lock and the key to communicate wirelessly with PC based SALTO programming software that makes lock re-programming or re-keying a thing of the past.

Both key cards and locks can be programmed to allow or restrict access to different parts of the building. And the information stored in the key card can be transferred to a computer to provide precise audit trail information about where and when each lock has been used including the date, time and whether access was allowed or denied.

And when combined with the additional functionality provided by the SALTO Virtual Network (SVN), users can achieve 90% of the benefits of a fully on-line system for the cost of a stand alone system.





### Smart locking and smart looking

SALTO access control systems are available with a wide range of options enabling them to be customised to provide the perfect locking platform for your specific application.

Users can choose from an extensive range of escutcheons and e-cylinders models from XS4 product ranges, specialist locks for glass door operations, electronic or mechanical privacy locking options, narrow or wide escutcheons, key override and anti-panic functions, on-line and off-line wall readers and a wide range of peripherals.

In addition our locking products also offer a wide range of contemporary finishes and handle designs suitable for use on any type of door, and the lever handles have been designed to meet the latest DDA (Disability Discrimination Act) requirements, ensuring they are simple and easy for anyone to use.

This outstanding flexibility is what makes SALTO the access control system choice in many new build and refurbishment projects across the world.



## Virtual Network – the total access management solution

The main objectives of a good access control system should always be to reduce the time needed to manage it, without any loss of functionality, flexibility, control or security.



- 8:30 a.m.
- Sarah enters the building.
  - Her card is re-validated another day.
  - Sarah is granted temporary access to the meeting room.
  - Jim's card is lost. The card is added to Sarah's on-card black list.
- 8:32 a.m.
- Sarah enters the elevator.
  - Jim can no longer use the elevator, as Sarah has blocked his card.
  - An audit is placed on Sarah's card.
- 8:35 a.m.
- Sarah enters her office and starts working.
  - Another audit is placed on her card.
  - After 3 years of no battery changes, her electronic handle set reports low battery to the card.
- 11:20 a.m.
- Sarah goes to her meeting.
  - While she enters the meeting room another audit is placed on her card.
- 1:00 p.m.
- Sarah goes to lunch.
  - All audits are downloaded to the central system.
  - Low battery status of her office door is reported to the system.
  - Access to the meeting room is removed.
  - Eileen's lost card is added to Sarah's on-card black list.

Sarah however is not alone in this building. There is Jim, Eileen, Peter, Annie and another 357 other colleagues, who together from the Salto Virtual Network.







The SALTO Virtual Network (SVN) has been developed with just this aim. The system allows stand-alone locks to read, receive and write information via its operating smart carriers. And since user related access information is stored in an encrypted format on the

ID carriers, on-line wall readers are able to update (and receive information from) the cards at any time anywhere in the building.

This functionality can revolutionise the problems associated with key control, eliminating the need to replace locks when key or code security is breached due to the loss or theft of keys and codes. It can combine on-line control points with off-line standalone locks enabling customers to manage up to 64,000 users and up to 64,000 doors in the same system. It also eliminates the physical restrictions of traditional stand alone electronic locks and can seamlessly integrate with an existing access control system to allow ID cards and locks to be updated, restricted or deleted remotely.

#### Features include:

- The ability to add or delete access privileges at will
- The ability to program in 256 different time zones
- Carry out updating tasks changing access times/days using up to 256 different calendars
- The ability to validate the expiry date of key cards on any on-line wall reader
- The ability to add security through additional authenticated validation procedures including pin codes and biometrics as well the ability to blacklist cards from the system
- On card audit-trailing to track staff or visitor movement
- Lock specific battery power data is registered on any card using the lock – staff or visitor – and transferred back to the PC control software via any update reader just by using the system

Whatever your access control needs, be it real time stand alone or networked on-line, or stand alone or networked off-line with no wires, no WIFI and no extra cost, SALTO can deliver. And with the SALTO Virtual Network (SVN) a perfect balance between cost and control can be achieved while opening up a wide range of possibilities for ID carrier control in a variety of environments.

#### Flexible user management

There are many examples where the access profile of a user can change frequently so SVN has been developed to provide unrivalled flexibility. For example, if you have visitors to your building their key card can be programmed with access to the route/doors they will need to use only for the time they spend on the premises.

Their key card is simply presented to a wall reader which downloads access privileges for the time they will be in the building. After a set time access privileges will no longer be granted and if the card is not handed back or is lost, it automatically becomes invalid.

This is where the SVN system really scores. Its adaptability to rapidly changing access profiles allows users to build-in additional security with automatic updating and modification of personalised key expiry dates adding real value to the access management of the building. And if on-line wall reader updaters are Ethernet connected, they can be linked to SALTO Pro Access software via a wireless modem link. This can create a 'virtual access network' that can be controlled from anywhere in the World – providing the ultimate solution for 'unmanned' or remote site access control management.



## XS4

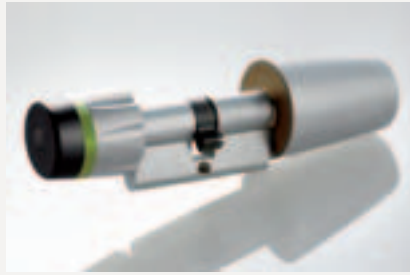
XS4 is the brand new access control platform from SALTO enabling users to control and manage a greater range of applications than ever before.

Smart, secure and innovative, XS4 needs no hard wiring and provides a totally wire free networked electronic locking solution with a great range of features. It is designed around state-of-the-art electronics that use distributed intelligence to pass information between microprocessors in the escutcheon and the key card.

This enables XS4 electronic escutcheons and e-cylinders to be easily added to almost any existing lock and door to turn them into fully featured access control doors without compromising comfort, convenience, security or control.



**XS4**  
by SALTO



#### **SALTO XS4 contactless RFID and Near Field Communication (NFC).**

XS4 is compatible with most standard mainstream RFID security technologies including Mifare, DESfire, Vecinity, Legic, HID iClass and Picopass, making it an ideal choice for multi-application solutions and users can select from flexible, integrated iButton, Smart Card or Proximity access control solutions.

SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.

It allows users to receive access rights by SMS, read the information on the screen and open those doors for which access has been granted.

#### **Unmatched Flexibility**

With XS4 users can also benefit from the many advantages of the SALTO Virtual Network (SVN).

This allows them to update their locks and key cards remotely and rapidly change access profiles to add real value to the access management of their building. It also eliminates the physical restrictions of traditional stand alone electronic locks and can seamlessly integrate with an existing access control system to allow ID cards and locks to be updated, restricted or deleted remotely.

This allows users to develop a custom-built security system that's just right for them!

#### **Features include:**

- Easy to install
- Comfortable to use
- Wire free system
- Battery powered
- 64,000 users
- Simple off-line installation possible on virtually any type of door including fire doors, those with narrow frames and doors with panic bars (available in 2007)
- Ability to use most European lock types, including Scandinavian and Swiss mortise locks and tubular latches
- American ANSI locks compatible
- Tested and approved for 1 hour fire rating according EN1634 and 3 hours UL rated
- Compatible with the highest EN standards including EN1906 level 2 & 3
- SQL compatible software

#### **Stylish and modern**

XS4 provides all the great features above, and its slim aesthetic design makes it the ideal choice for use on almost any project. It's also able to withstand extreme weather conditions, making it equally at home on exterior doors too.





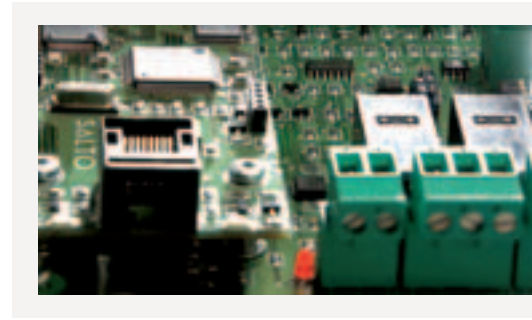
## XS4 Wall Readers

In order to ensure users can make the most of all the benefits of the XS4 access control platform, SALTO has developed a range of modular on-line and stand alone wall readers and control units to ensure perimeter security remains uncompromised.

Perfect for the control of main entrance doors, elevators (including automatic floor selection) parking barriers, garages etc the wall readers offer Ethernet/WIFI connectivity and are the on-line link of the SALTO Virtual Network (SVN) to automatically upload/download audit/activity information and changes to access schedules directly from networked key cards.



The on line control units can be placed in Local Area Networks (LANs) as well as Wide Area Networks (WANs) allowing you to update cards or control access to and within a building in Shanghai, while sitting in an office in München.



XS4 wall readers are designed to work perfectly with a variety of access control technologies including iButton, Smart Card or RFID access control solutions to provide maximum control and versatility.



## Software

SALTO software brings the true power of access control to any building at a fraction of the cost of a 'hard wired only' system. It is one of the most comprehensive ways to manage your access control requirements, providing multi-operational flexibility and performance whether real time or through the SALTO Virtual Network (SVN). In one software package you can control the online doors linked to the Ethernet/WIFI network, as well as the stand alone units through SVN.

The way in which a building's electronic locking system is programmed, controlled and managed is as important as the performance of the product itself. That's why to make sure our customers have the most suitable system for their needs, we've developed a range of management control software to suit every application.

### The world at your fingertips

Whatever your needs – large or small – we've got it covered. Our PRO-Access series software enables an entire building to be operated by one database managing the intelligent electronic locks and key cards for standalone operations. It is available in several different levels so you can be sure one is just right for you.

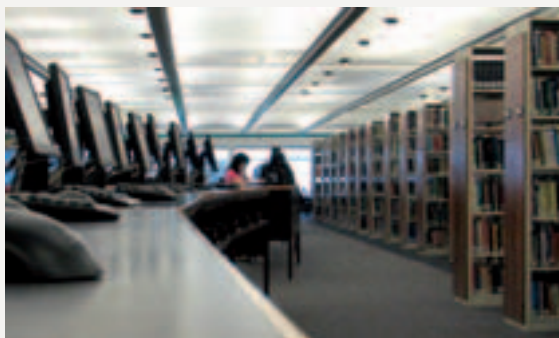
### Affordable for everyone

PRO-Access 100 is for those end users who only need to manage up to 100 users in a building while at the other end of the scale, the top version of PRO-Access is designed for large applications and allows users to manage up to 64,000 users and 64,000 doors. A special version of the PRO-Access series known as HAMS (Hotel Access Management) is available to meet the specific requirements of hotel users.

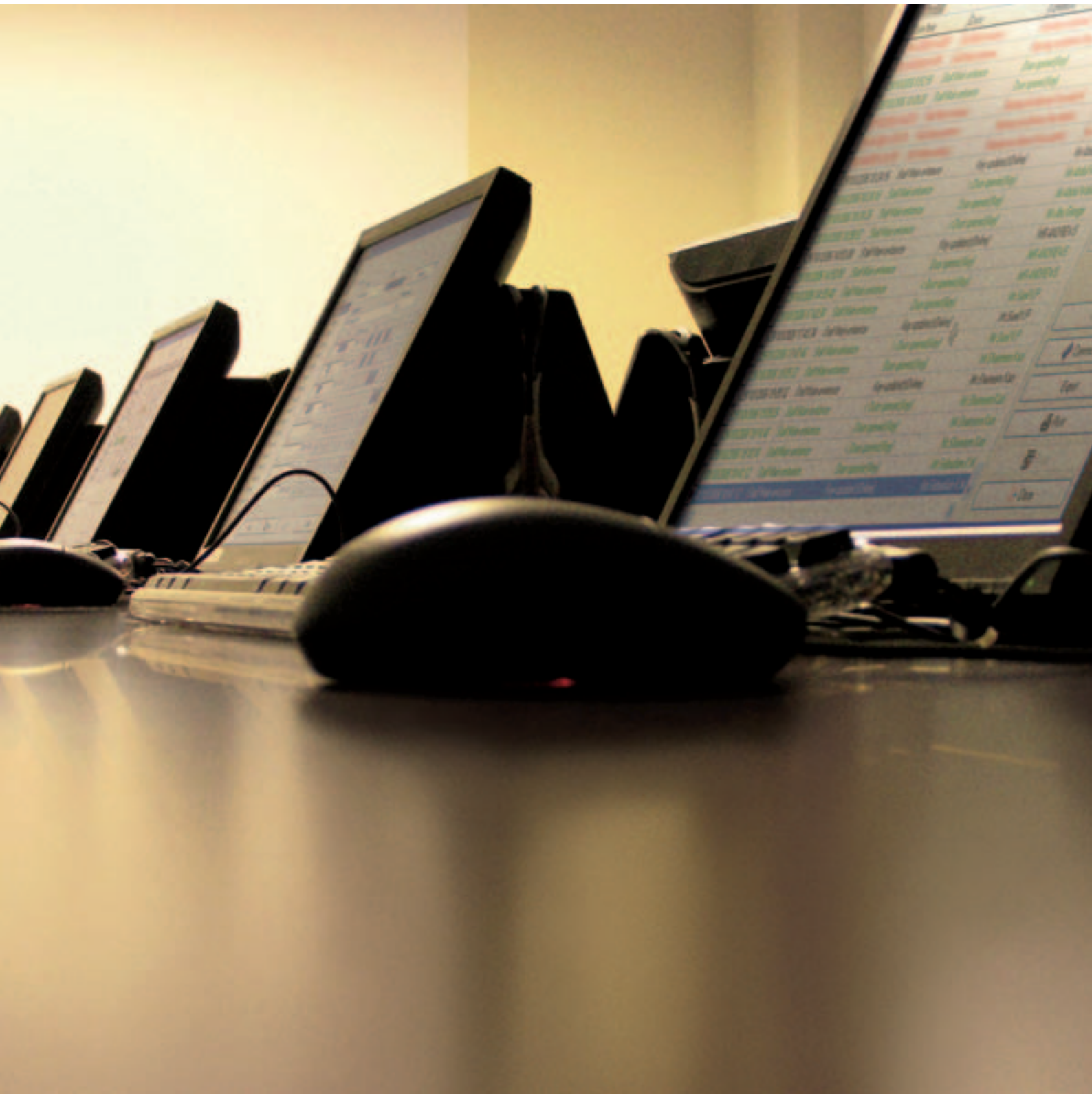
The software is fully featured and also provides several tools to enable users to dramatically increase their access control flexibility and security. Special departmental features exclusive to SALTO allow different departments and or buildings in a Wide Area Network (WAN) to manage their own doors and users within the bigger system, but the ability to share doors and users still remains for maximum flexibility.

It can use SALTO's database engine or an MS/SQL server and can also work with Time & Attendance and Electronic Purse packages to keep track of employees' attendance and manage, monitor and produce reports of employees attendance and load key cards with 'electronic' money for use in cashless vending or other catering arrangements.

That's why you can trust SALTO to give you the efficient, secure, flexible and easy to use access management software you need, whatever your application, the Salto Virtual Network (SVN).







## Case studies

### French Safety Agency select SALTO:

The French Health Products Safety Agency (Afssaps) needed to secure almost 700 office doors, made up of 435 wooden doors and 225 glass doors, with a system which could adapt to the changing needs of the organisation. They wanted a secure and flexible access system that could add different levels of security as well as cope with their unique access control needs. SALTO was selected to secure all the doors with their powerful and flexible electronic access control system which can be adapted at will and was capable of working with their preferred Mifare contact less ID carriers.

### Netherlands TV:

RTL Nederland based in Hilversum, Holland, owns and operates 3 commercial Television Channels as well as 2 commercial radio stations. Over 600 doors throughout the company are now controlled by a mix of off-line electronic locks and on-line wall readers, all managed by a single access management software package. RTL Nederland likes the fact that they can fit SALTO locks on existing doors by simply replacing the mechanical cylinders with an electronic system, and that the whole installation has been carried out with almost no physical changes to the doors or to the fabric of the building.

### Cleared for take-off at Heathrow:

BAA (British Airports Authority) is the world's leading airport company. It owns and operates seven airports in the UK – Heathrow, Gatwick, Stansted, Southampton, Glasgow, Edinburgh and Aberdeen and has management contracts at a number of international airports. The company is considered a world-leader in security with one third of its staff working in this area. To protect a number of sensitive areas at London Heathrow, SALTO has installed over 1000 RFID e-locks in Terminals 1, 2, 3 and 4. Their ability to restrict access only to authorised personnel and provide comprehensive audit trail information by using their own BAA Heathrow ID card gives the airport management full control over their security requirements.

### Oxford University choose SALTO:

Oxford is the oldest university in the English-speaking world and lays claim to nine centuries of continuous existence. As an internationally renowned centre for teaching and research, the university attracts students and scholars from across the globe. Seven colleges at this world famous seat of learning are now using SALTO as their choice of locking technology, protecting a wide variety of doors in a number of student halls of residence and within faculty departments of the university. Upgrading security measures is a constant project at Oxford and thanks to its modular ability to add on extra doors as and when the customer requires, the university has embraced SALTO as their all round access control solution.

### New meets old in Warsaw:

The Polonia Palace Hotel, the only hotel in Warsaw, Poland, to have survived World War II unscathed, completed a major renovation by adding the latest in electronic locking technology for the comfort and convenience of its guests. The 24-month project carefully preserved all the architectural highlights of the existing building whilst adding stylish and modern new facilities to ensure high standards are met and exceeded in the 21st Century and beyond. The Polonia Palace Hotel has 206 guest rooms and all are now equipped with SALTO smart card locks. Their slim escutcheons blend perfectly with the new interior décor of the hotel, providing high levels of security for the guests and secure access control for the hotel management.

### Secure Down Under:

Sydney University Village is the first Australian University to choose SALTO to handle their access control needs. Located just across the street from the Sydney University grounds, Sydney University Village consists of ten separate buildings with a range of accommodation options, from five bedroom apartments to one-bedroom studios. SALTO has equipped almost 400 doors with their state-of-the-art electronic control system providing access for some 1000 users, mainly students, using smart and secure U-(chip) cards. The SALTO system is a perfect fit with one of SUV's highest priorities, the personal security of its residents, and the use of smart card operated door locks help maintain the highest standards of safety and security.





### Smart access for T- Mobile:

The T-Center in Vienna, Austria, is home not only to T-Mobile Austria, but also T-Online and T-Systems. In order to meet the security requirements of the owners and tenants, the building is divided into four main areas. This required setting different levels of security clearance for different parts of the building as well as ensuring that the infrastructure was capable of adapting to future security requirements. A total of 1000 doors were fitted with self-contained electronic units from SALTO's security escutcheon range providing electronic control of mortise deadbolt operations. The ability to create different levels of access for employees according to their security status by using several different SALTO product solutions provided the flexible, scalable system the customer required.





## Corporate

Since its inception in 2001, SALTO Systems has grown to be the market leader in state-of-the-art electronic access control systems.

Recognising the need for a new access control concept, SALTO has developed a wide range of innovative products such as the SALTO Virtual Network and XS4 access control platform, while our electronic escutcheons, wall readers and on-line and off-line control units now control security access for a growing range of end users from Airports to Hospitals, Banks to Government Buildings and Universities to Hotels.

Our brand new HQ and high capacity manufacturing facility is fully equipped with the latest technology for JIT (Just in Time) manufacturing while substantial ongoing investment in a dedicated RD&I team (Research, Development and Innovation) enables us to stay at the cutting edge of modern mechanical, electronic and software design.

This team, working with other European partners as part of an international Research and Development initiative aimed at developing a new wireless access control system, has been awarded the prestigious EUREKA label.



This is an intergovernmental initiative that aims to enhance European competitiveness through support to businesses, research centres and universities who carry out pan-European projects to develop innovative products, processes and services.

distribution partner network now covers more than 60 countries to service international growth, and we have branch offices in Spain, UK, USA, Canada, Mexico, Portugal and Malaysia, with more planned to open in other countries.

At SALTO we are determined to remain the best at what we do - both now and in the future. We never forget you have a choice, and we are committed to providing uncompromising standards of excellence both in our access control products and in our service to you, our customers.

Technology is only useful if it improves people's lives. Our access control systems aim to do just that. So if you need a better, more efficient way to secure and control your building, take a look at SALTO. Jump! Since its inception in 2001, SALTO Systems has grown to be the market leader in state-of-the-art electronic access control systems.







**SALTO SYSTEMS HQ, Spain**

Polígono Lanbarren  
C/ Arkotz, 9  
20180 Oiartzun Spain  
Tel.: +34 943 344 550  
Fax: +34 943 341 621  
email: [info@saltosystems.com](mailto:info@saltosystems.com)  
[www.saltosystems.com](http://www.saltosystems.com)

**SALTO SYSTEMS LTD, Birmingham**

Epic, Eliot Park  
Barling Way  
GB-CV10 7RH, Nuneaton United Kingdom  
Tel.: +44 247 679 6430  
Fax: +44 247 679 6431  
email: [info.uk@saltosystems.com](mailto:info.uk@saltosystems.com)  
[www.saltosystems.com](http://www.saltosystems.com)

**SALTO Asia Pacific, Kuala Lumpur**

Suite 5.03, Plaza 138,  
138 Jalan Ampang  
50450, Kuala Lumpur, Malaysia  
Tel: +603 2382 3138  
Fax: +603 2382 3139  
email: [info.asia@saltosystems.com](mailto:info.asia@saltosystems.com)  
[www.saltosystems.com](http://www.saltosystems.com)

**SALTO Middle east, Abu Dhabi**

Bani Yass Str. 6,  
Hadi Bin Hoayreb Al Mansoor Bldg. Mezz.  
P.O. Box: 4873  
Abu Dhabi, United Arab Emirates  
Tel.: +971 2633 4817  
Fax: +971 2634 7367  
email: [info.me@saltosystems.com](mailto:info.me@saltosystems.com)  
[www.saltosystems.com](http://www.saltosystems.com)

**SALTO Iternacional**

Salto Systems HQ, Spain  
Salto Systems Inc, Atlanta  
Salto Systems Ltd, Birmingham  
Salto Asia-Pacific, Kuala Lumpur  
Salto Canada, Montreal  
Salto México, Cancún  
Salto Middle East, Abu Dhabi  
Salto Portugal, Oporto

